FCC RF Test Report

APPLICANT	:	TP-Link Technologies Co., Ltd.
EQUIPMENT	:	AC1200 Wi-Fi Range Extender
BRAND NAME	:	TP-Link
MODEL NAME	:	RE305
FCC ID	:	TE7RE305
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure

The product was received on Sep. 20, 2016 and testing was completed on Feb. 10, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR690205-01	Rev. 01	Initial issue of report	Feb. 23, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	≤ -17, -27 dBm (depend on band)&15.209(a)	Pass	Under limit 0.43 dB at 5725.080 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 11.30 dB at 0.502 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

1.2 Manufacturer

TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

1.3 Product Feature of Equipment Under Test

DTS/UNII a/b/g/n/ac

Product Specification subjective to this standard	
Antenna Type	WLAN: omni-directional Antenna

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH05-HY	CO05-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 58 , Aly. 75, Ln. 564, Wenhua 3rd Rd., Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH11-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58#	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122#	5610	128	5640

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

MIMO Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + RJ-45 Link

Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140

Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20
L	Low	52	100
M	Middle	60	116
H	High	64	140

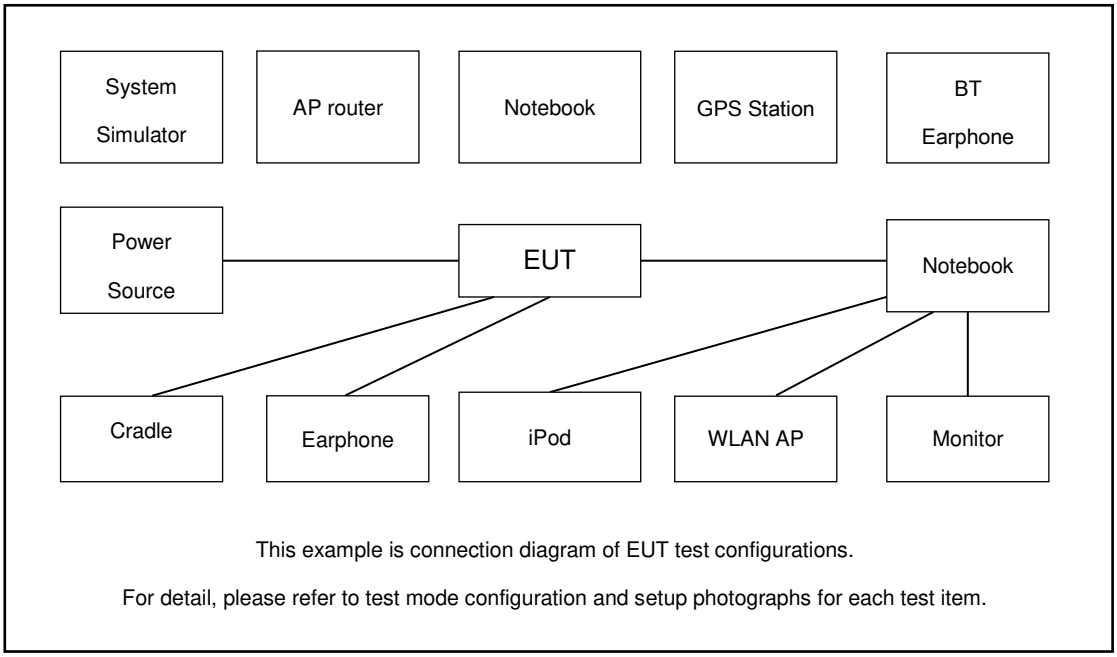
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT40	802.11n HT40
L	Low	54	102
M	Middle	-	110
H	High	62	134

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT20	802.11ac VHT20
L	Low	52	100
M	Middle	60	116
H	High	64	140

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT40	802.11ac VHT40
L	Low	54	102
M	Middle	-	110
H	High	62	134

Ch. #		Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80
L	Low	-	-
M	Middle	58	106
H	High	-	-

2.3 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

For detail, please refer to test mode configuration and setup photographs for each test item.

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, “MT76xxE_AP” installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, U-NII procedures were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

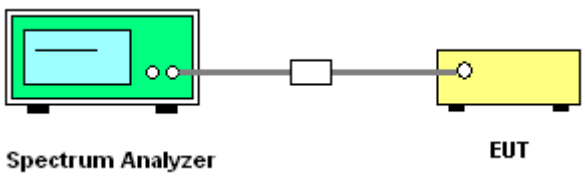
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

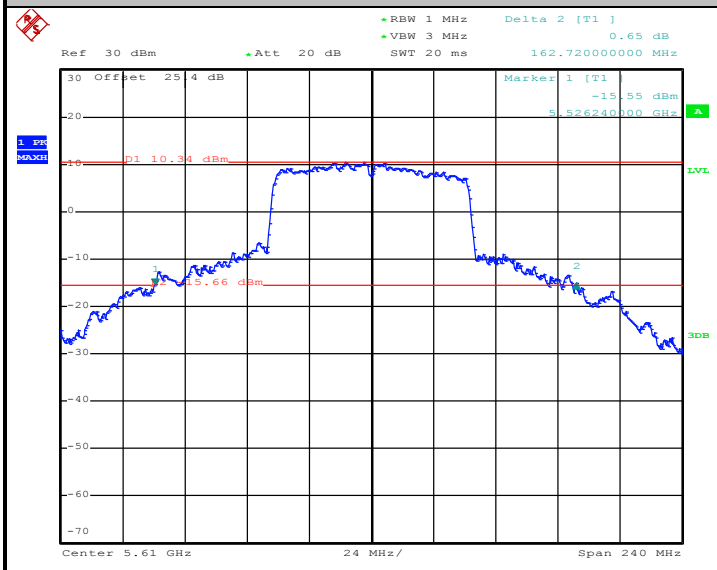
3.1.4 Test Setup



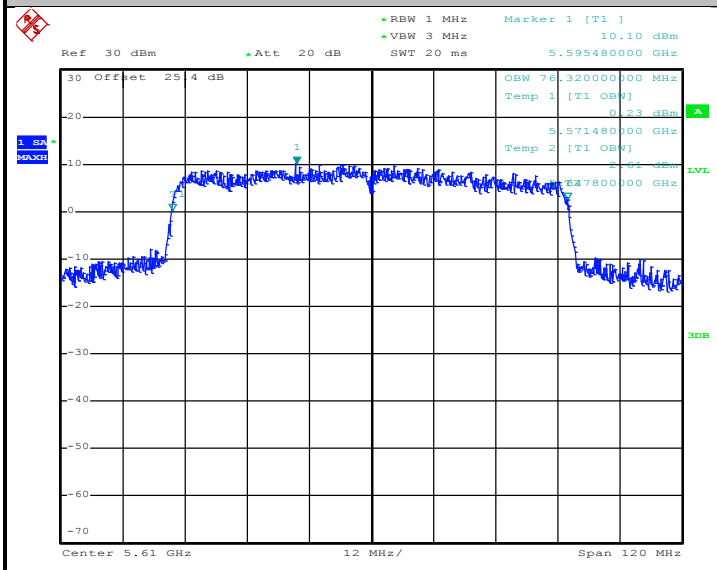
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

CDD modes

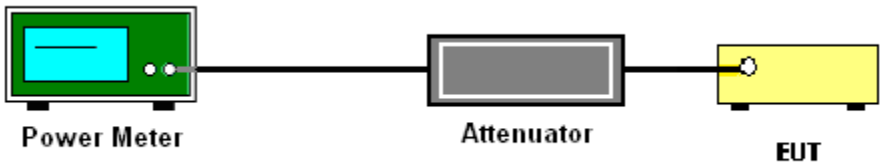
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03 for CDD modes.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.

3.2.4 Test Setup

For normal channel:



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section F) Maximum power spectral density.

CDD modes

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

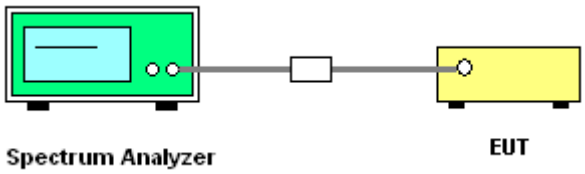
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

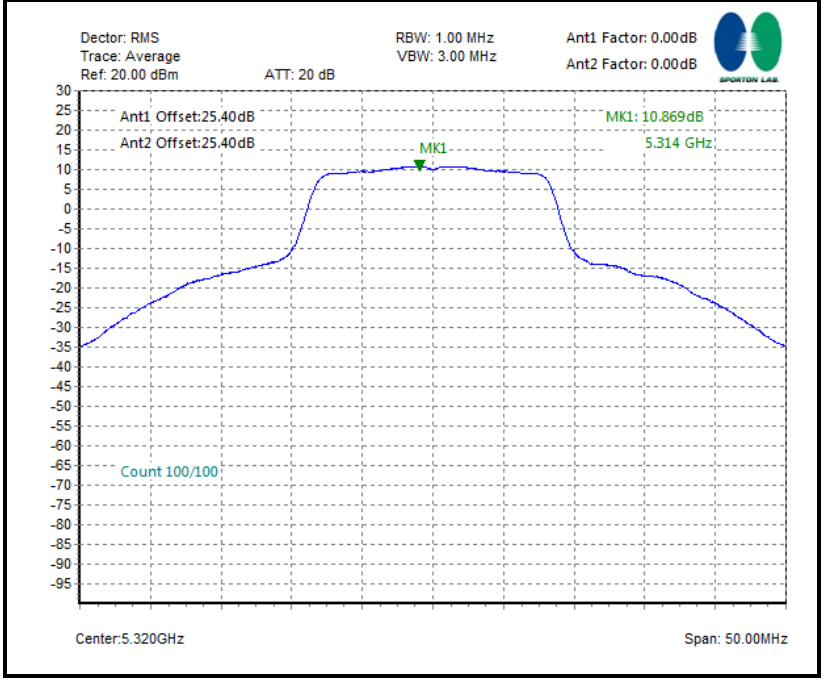
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/MHz)



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(1) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

(2) KDB789033 D02 v01r03 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

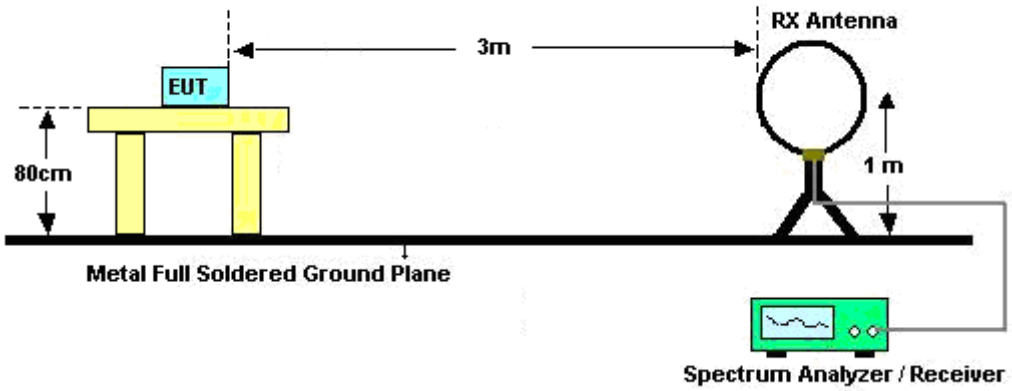
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

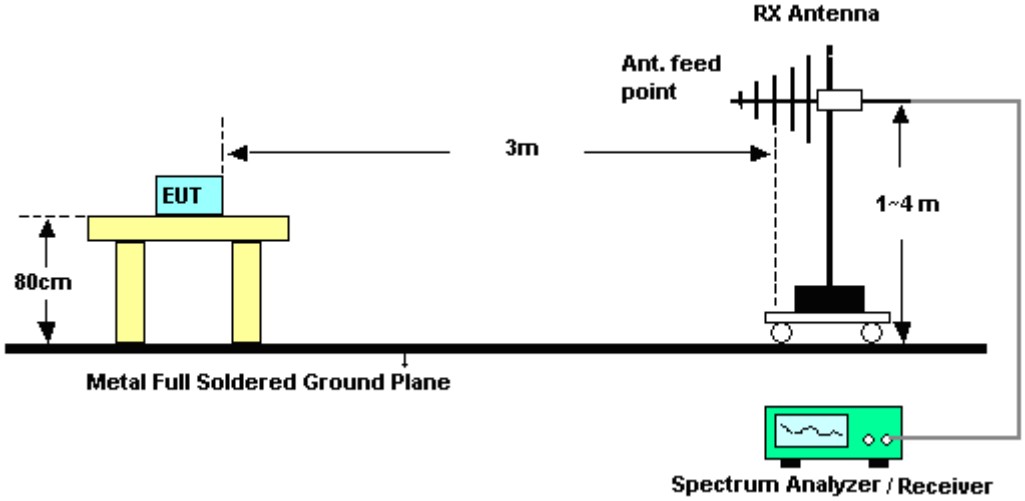
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

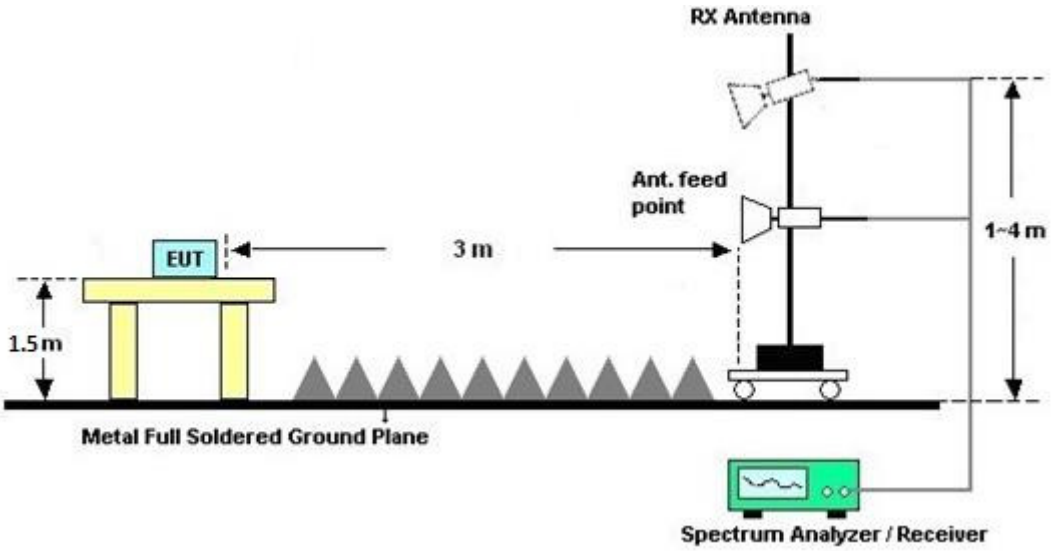
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

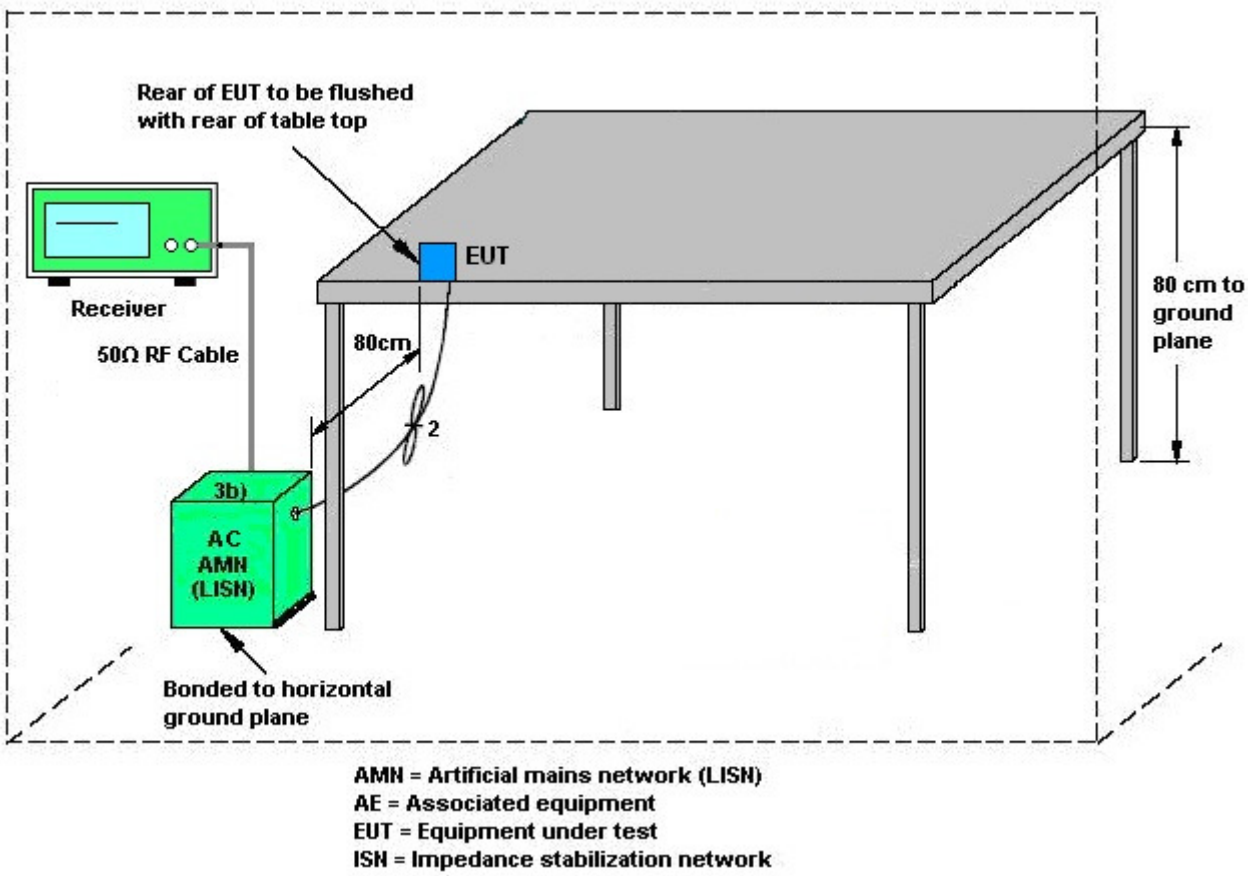
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup

3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

CDD modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(N_{ANT}/N_{SS}=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band II	3.00	3.00	3.00	6.01	0.00	0.01
Band III	3.00	3.00	3.00	6.01	0.00	0.01

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 17, 2016	Sep. 20, 2016 ~ Feb. 10, 2017	Jun. 16, 2017	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1240001	300MHz~40GHz	Sep. 07, 2016	Sep. 20, 2016 ~ Feb. 10, 2017	Sep. 06, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2016	Sep. 20, 2016 ~ Feb. 10, 2017	Sep. 06, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	Jun. 06, 2016	Sep. 20, 2016 ~ Feb. 10, 2017	Jun. 05, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890089	1V~20V 0.5A~5A	Jan. 18, 2016	Sep. 20, 2016 ~ Jan. 09, 2017	Jan. 17, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890089	1V~20V 0.5A~5A	Jan. 12, 2017	Jan. 12, 2017 ~ Feb. 10, 2017	Jan. 17, 2018	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Sep. 30, 2016 ~ Feb. 08, 2017	Sep. 01, 2017	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N 0602	30MHz~1GHz	Nov. 17, 2015	Sep. 30, 2016 ~ Oct. 14, 2016	Nov. 16, 2016	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N 0602	30MHz~1GHz	Oct. 15, 2016	Oct. 15, 2016 ~ Feb. 08, 2017	Oct. 14, 2017	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz ~ 18GHz	Mar. 30, 2016	Sep. 30, 2016 ~ Feb. 08, 2017	Mar. 31, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	Sep. 30, 2016 ~ Feb. 08, 2017	Apr. 14, 2017	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Sep. 30, 2016 ~ Nov. 09, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Nov. 10, 2016 ~ Feb. 08, 2017	Nov. 09, 2018	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1902247	1GHz~18GHz	Jun. 22, 2016	Sep. 30, 2016 ~ Feb. 08, 2017	Jun. 21, 2017	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Sep. 30, 2016 ~ Nov. 09, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	Nov. 10, 2016 ~ Feb. 08, 2017	Nov. 09, 2017	Radiation (03CH11-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Sep. 30, 2016 ~ Feb. 08, 2017	Feb. 14, 2017	Radiation (03CH11-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 21, 2016	Sep. 30, 2016 ~ Feb. 08, 2017	Mar. 20, 2017	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 30, 2016 ~ Feb. 08, 2017	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Sep. 30, 2016 ~ Feb. 08, 2017	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Sep. 30, 2016 ~ Feb. 08, 2017	N/A	Radiation (03CH11-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 21, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Sep. 21, 2016	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Sep. 21, 2016	Dec. 01, 2016	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	Sep. 21, 2016	Jan. 07, 2017	Conduction (CO05-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.70**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.50**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.20**

Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2016/09/20 ~ 2017/02/10	Relative Humidity:	51~54	%

Report Number : FR690205-01

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	17.85	18.25	30.80	35.45	23.52		29.52		23.98		
11a	6Mbps	2	60	5300	17.90	18.30	33.10	35.40	23.53		29.53		23.98		
11a	6Mbps	2	64	5320	18.80	18.40	37.35	32.80	23.65		29.65		23.98		
VHT20	MCS0	2	52	5260	18.65	19.70	42.18	43.56	23.71		29.71		23.98		
VHT20	MCS0	2	60	5300	18.65	19.65	42.18	43.44	23.71		29.71		23.98		
VHT20	MCS0	2	64	5320	19.90	19.00	43.60	42.80	23.79		29.79		23.98		
VHT40	MCS0	2	54	5270	37.10	37.20	71.73	70.47	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.50	36.40	42.21	42.12	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.24	75.12	81.60	81.44	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.00	0.00	19.22	18.22	21.76	23.98		3.00		26.99	Pass
11a	6Mbps	2	60	5300	0.00	0.00	18.95	18.05	21.53	23.98		3.00		26.99	Pass
11a	6Mbps	2	64	5320	0.00	0.00	18.95	18.40	21.69	23.98		3.00		26.99	Pass
HT20	MCS0	2	52	5260	0.00	0.00	19.18	18.32	21.78	23.98		3.00		26.99	Pass
HT20	MCS0	2	60	5300	0.00	0.00	19.24	18.43	21.86	23.98		3.00		26.99	Pass
HT20	MCS0	2	64	5320	0.00	0.00	19.46	18.45	21.99	23.98		3.00		26.99	Pass
HT40	MCS0	2	54	5270	0.00	0.00	19.29	18.67	22.00	23.98		3.00		26.99	Pass
HT40	MCS0	2	62	5310	0.00	0.00	14.76	13.78	17.31	23.98		3.00		26.99	Pass
VHT20	MCS0	2	52	5260	0.00	0.00	19.30	18.45	21.91	23.98		3.00		26.99	Pass
VHT20	MCS0	2	60	5300	0.00	0.00	19.44	18.45	21.98	23.98		3.00		26.99	Pass
VHT20	MCS0	2	64	5320	0.00	0.00	19.58	18.50	22.08	23.98		3.00		26.99	Pass
VHT40	MCS0	2	54	5270	0.00	0.00	19.43	18.71	22.10	23.98		3.00		26.99	Pass
VHT40	MCS0	2	62	5310	0.00	0.00	14.85	13.81	17.37	23.98		3.00		26.99	Pass
VHT80	MCS0	2	58	5290	0.00	0.00	13.67	12.61	16.18	23.98		3.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.00	0.00			10.75	10.99		6.01			Pass
11a	6Mbps	2	60	5300	0.00	0.00			10.61	10.99		6.01			Pass
11a	6Mbps	2	64	5320	0.00	0.00			10.87	10.99		6.01			Pass
VHT20	MCS0	2	52	5260	0.00	0.00			10.31	10.99		6.01			Pass
VHT20	MCS0	2	60	5300	0.00	0.00			10.23	10.99		6.01			Pass
VHT20	MCS0	2	64	5320	0.00	0.00			10.01	10.99		6.01			Pass
VHT40	MCS0	2	54	5270	0.00	0.00			7.15	10.99		6.01			Pass
VHT40	MCS0	2	62	5310	0.00	0.00			2.51	10.99		6.01			Pass
VHT80	MCS0	2	58	5290	0.00	0.00			-1.93	10.99		6.01			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	18.25	18.30	35.25	26.00	23.61		29.61		23.98		
11a	6Mbps	2	116	5580	17.85	17.90	27.40	33.50	23.52		29.52		23.98		
11a	6Mbps	2	140	5700	18.40	18.00	32.90	25.70	23.55		29.55		23.98		
VHT20	MCS0	2	100	5500	19.20	18.45	42.55	31.30	23.66		29.66		23.98		
VHT20	MCS0	2	116	5580	18.55	18.80	34.77	42.66	23.68		29.68		23.98		
VHT20	MCS0	2	140	5700	18.55	18.35	34.20	21.95	23.64		29.64		23.98		
VHT40	MCS0	2	102	5510	36.40	36.50	42.21	42.12	23.98		30.00		23.98		
VHT40	MCS0	2	110	5550	36.90	38.60	69.84	76.83	23.98		30.00		23.98		
VHT40	MCS0	2	134	5670	38.20	37.10	76.50	71.55	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.12	75.24	81.28	80.96	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	76.32	75.72	162.72	158.40	23.98		30.00		23.98		

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TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.00	0.00	18.62	17.20	20.98	23.98		3.00		26.99	Pass
11a	6Mbps	2	116	5580	0.00	0.00	17.63	16.78	20.24	23.98		3.00		26.99	Pass
11a	6Mbps	2	140	5700	0.00	0.00	17.10	16.54	19.84	23.98		3.00		26.99	Pass
HT20	MCS0	2	100	5500	0.00	0.00	18.17	17.64	20.92	23.98		3.00		26.99	Pass
HT20	MCS0	2	116	5580	0.00	0.00	18.90	17.28	21.18	23.98		3.00		26.99	Pass
HT20	MCS0	2	140	5700	0.00	0.00	16.22	15.70	18.98	23.98		3.00		26.99	Pass
HT40	MCS0	2	102	5510	0.00	0.00	14.86	13.55	17.26	23.98		3.00		26.99	Pass
HT40	MCS0	2	110	5550	0.00	0.00	19.38	18.40	21.93	23.98		3.00		26.99	Pass
HT40	MCS0	2	134	5670	0.00	0.00	18.86	18.33	21.61	23.98		3.00		26.99	Pass
VHT20	MCS0	2	100	5500	0.00	0.00	19.15	17.76	21.52	23.98		3.00		26.99	Pass
VHT20	MCS0	2	116	5580	0.00	0.00	19.06	17.32	21.29	23.98		3.00		26.99	Pass
VHT20	MCS0	2	140	5700	0.00	0.00	16.31	15.85	19.10	23.98		3.00		26.99	Pass
VHT40	MCS0	2	102	5510	0.00	0.00	15.21	13.63	17.50	23.98		3.00		26.99	Pass
VHT40	MCS0	2	110	5550	0.00	0.00	19.40	18.43	21.95	23.98		3.00		26.99	Pass
VHT40	MCS0	2	134	5670	0.00	0.00	18.97	18.38	21.70	23.98		3.00		26.99	Pass
VHT80	MCS0	2	106	5530	0.00	0.00	13.36	13.36	16.37	23.98		3.00		26.99	Pass
VHT80	MCS0	2	122	5610	0.00	0.00	18.95	17.68	21.37	23.98		3.00		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.00	0.00			9.87	10.99		6.01			Pass
11a	6Mbps	2	116	5580	0.00	0.00			10.62	10.99		6.01			Pass
11a	6Mbps	2	140	5700	0.00	0.00			8.34	10.99		6.01			Pass
VHT20	MCS0	2	100	5500	0.00	0.00			9.90	10.99		6.01			Pass
VHT20	MCS0	2	116	5580	0.00	0.00			10.54	10.99		6.01			Pass
VHT20	MCS0	2	140	5700	0.00	0.00			7.17	10.99		6.01			Pass
VHT40	MCS0	2	102	5510	0.00	0.00			2.87	10.99		6.01			Pass
VHT40	MCS0	2	110	5550	0.00	0.00			8.30	10.99		6.01			Pass
VHT40	MCS0	2	134	5670	0.00	0.00			7.00	10.99		6.01			Pass
VHT80	MCS0	2	106	5530	0.00	0.00			-0.22	10.99		6.01			Pass
VHT80	MCS0	2	122	5610	0.00	0.00			4.10	10.99		6.01			Pass

TEST RESULTS DATA
Frequency Stability

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	50	120	
11a	6Mbps	1	64	5320	5320.025	0.025	4.70	-30	120	
11a	6Mbps	1	64	5320	5320.000	0.000	0.00	20	138	
11a	6Mbps	1	64	5320	5320.050	0.050	9.40	20	102	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	120	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stablility (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	50	120	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	120	
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	20	138	
11a	6Mbps	1	100	5500	5500.025	0.025	4.55	20	102	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	120	

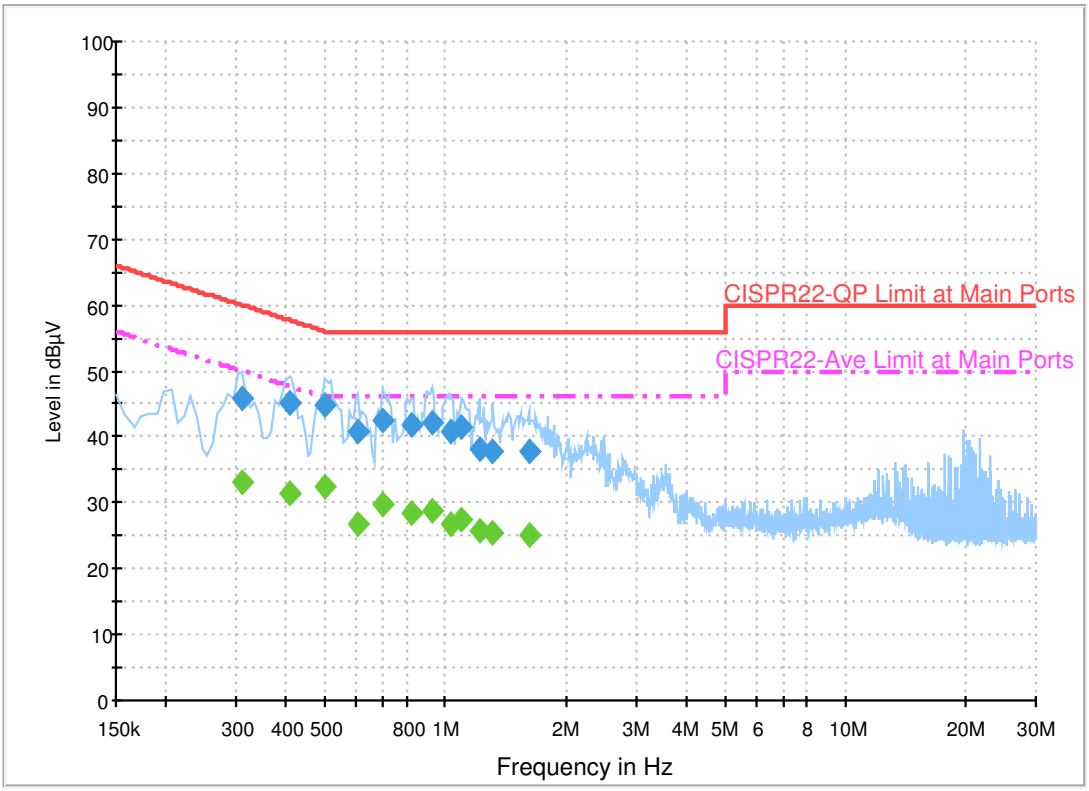
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	**Temperature :**	23~24℃
		Relative Humidity :	50~51%

EUT Information

Report NO :	690205
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.310000	45.9	Off	L1	19.6	14.1	60.0
0.406000	45.2	Off	L1	19.6	12.5	57.7
0.502000	44.7	Off	L1	19.6	11.3	56.0
0.606000	40.8	Off	L1	19.6	15.2	56.0
0.694000	42.4	Off	L1	19.6	13.6	56.0
0.822000	41.9	Off	L1	19.6	14.1	56.0
0.926000	42.3	Off	L1	19.7	13.7	56.0
1.038000	40.8	Off	L1	19.7	15.2	56.0
1.094000	41.3	Off	L1	19.7	14.7	56.0
1.214000	38.0	Off	L1	19.7	18.0	56.0
1.310000	37.8	Off	L1	19.7	18.2	56.0
1.614000	37.8	Off	L1	19.7	18.2	56.0

Final Result 2

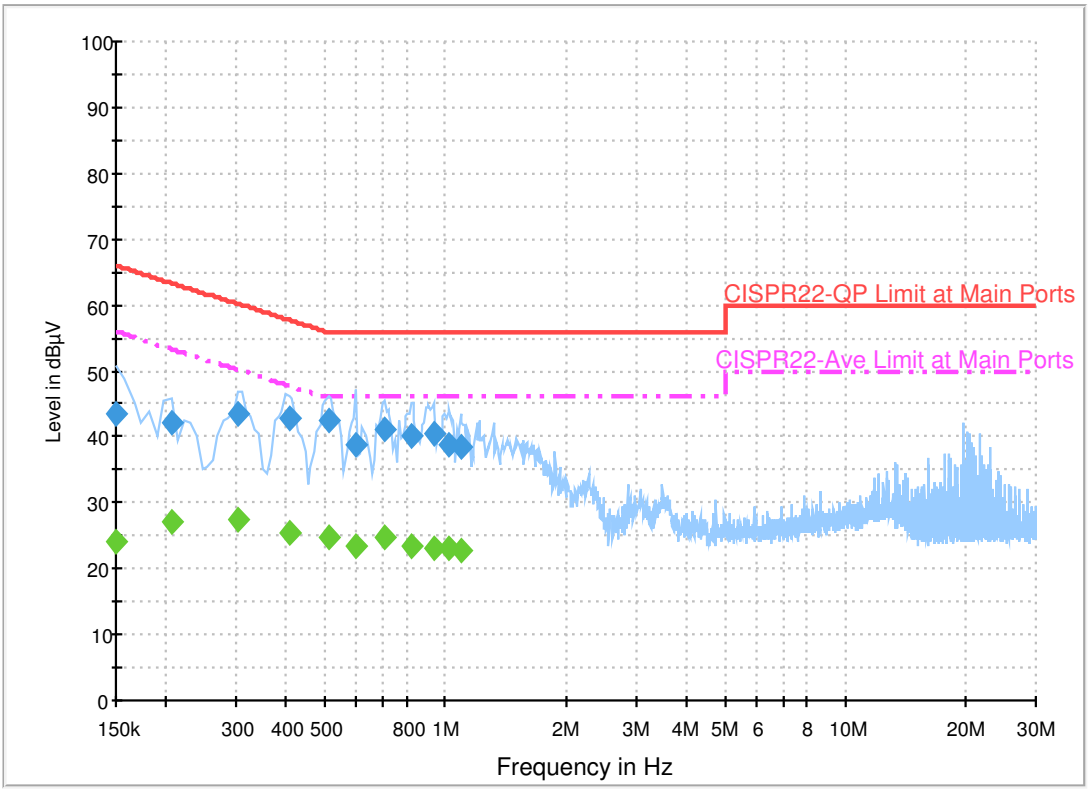
Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.310000	33.1	Off	L1	19.6	16.9	50.0
0.406000	31.5	Off	L1	19.6	16.2	47.7
0.502000	32.5	Off	L1	19.6	13.5	46.0
0.606000	26.9	Off	L1	19.6	19.1	46.0
0.694000	29.6	Off	L1	19.6	16.4	46.0
0.822000	28.4	Off	L1	19.6	17.6	46.0

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.926000	28.7	Off	L1	19.7	17.3	46.0
1.038000	26.7	Off	L1	19.7	19.3	46.0
1.094000	27.5	Off	L1	19.7	18.5	46.0
1.214000	25.7	Off	L1	19.7	20.3	46.0
1.310000	25.4	Off	L1	19.7	20.6	46.0
1.614000	25.0	Off	L1	19.7	21.0	46.0

EUT Information

Report NO :	690205
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.5	Off	N	19.6	22.5	66.0
0.206000	42.0	Off	N	19.6	21.4	63.4
0.302000	43.6	Off	N	19.6	16.6	60.2
0.406000	42.9	Off	N	19.6	14.8	57.7
0.510000	42.3	Off	N	19.6	13.7	56.0
0.598000	38.8	Off	N	19.6	17.2	56.0
0.702000	41.0	Off	N	19.6	15.0	56.0
0.822000	40.1	Off	N	19.6	15.9	56.0
0.934000	40.3	Off	N	19.6	15.7	56.0
1.022000	38.9	Off	N	19.6	17.1	56.0
1.094000	38.5	Off	N	19.6	17.5	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	24.0	Off	N	19.6	32.0	56.0
0.206000	27.1	Off	N	19.6	26.3	53.4
0.302000	27.5	Off	N	19.6	22.7	50.2
0.406000	25.5	Off	N	19.6	22.2	47.7
0.510000	24.7	Off	N	19.6	21.3	46.0
0.598000	23.5	Off	N	19.6	22.5	46.0
0.702000	24.8	Off	N	19.6	21.2	46.0

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.822000	23.4	Off	N	19.6	22.6	46.0
0.934000	23.0	Off	N	19.6	23.0	46.0
1.022000	23.2	Off	N	19.6	22.8	46.0
1.094000	22.7	Off	N	19.6	23.3	46.0

Appendix C. Radiated Spurious Emission

Test Engineer :	J.C. Liang and Jacky Hung	Temperature :	20~23°C
		Relative Humidity :	50~54%

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5146.9	53.61	-20.39	74	45.27	31.58	10.23	33.47	129	356	P	H
		5139.36	45.09	-8.91	54	36.78	31.56	10.22	33.47	129	356	A	H
	*	5260	117.19	-	-	108.58	31.72	10.37	33.48	129	356	P	H
	*	5260	109.91	-	-	101.3	31.72	10.37	33.48	129	356	A	H
		5364	50.74	-23.26	74	41.63	31.84	10.75	33.48	129	356	P	H
		5380.8	42.01	-11.99	54	32.76	31.86	10.87	33.48	129	356	A	H
		5142.48	47.55	-26.45	74	39.21	31.58	10.23	33.47	400	115	P	V
		5139.1	38.47	-15.53	54	30.16	31.56	10.22	33.47	400	115	A	V
	*	5260	110.38	-	-	101.77	31.72	10.37	33.48	400	115	P	V
	*	5260	103.06	-	-	94.45	31.72	10.37	33.48	400	115	A	V
		5382.72	47.13	-26.87	74	37.88	31.86	10.87	33.48	400	115	P	V
		5381.04	37.58	-16.42	54	28.33	31.86	10.87	33.48	400	115	A	V
802.11a CH 60 5300MHz		5099.84	49.16	-24.84	74	40.74	31.68	10.21	33.47	280	7	P	H
		5139.36	40.65	-13.35	54	32.19	31.71	10.22	33.47	280	7	A	H
	*	5300	117.76	-	-	108.91	31.84	10.49	33.48	280	7	P	H
	*	5300	110.1	-	-	101.25	31.84	10.49	33.48	280	7	A	H
		5378.16	58.64	-15.36	74	49.46	31.91	10.75	33.48	280	7	P	H
		5379.36	50.19	-3.81	54	41.01	31.91	10.75	33.48	280	7	A	H
		5137.28	48.26	-25.74	74	39.8	31.71	10.22	33.47	397	231	P	V
		5146.64	38.02	-15.98	54	29.54	31.72	10.23	33.47	397	231	A	V
	*	5300	113.56	-	-	104.71	31.84	10.49	33.48	397	231	P	V
	*	5300	104.2	-	-	95.35	31.84	10.49	33.48	397	231	A	V
		5379.84	51.21	-22.79	74	42.03	31.91	10.75	33.48	397	231	P	V
		5379.12	42.46	-11.54	54	33.28	31.91	10.75	33.48	397	231	A	V

802.11a CH 64 5320MHz	*	5320	117.98	-	-	107.32	32.44	11.25	33.03	209	339	P	H
	*	5320	108.65	-	-	97.99	32.44	11.25	33.03	209	339	A	H
		5350.72	61.45	-12.55	74	50.71	32.49	11.28	33.03	209	339	P	H
		5350.08	51.53	-2.47	54	40.79	32.49	11.28	33.03	209	339	A	H
													H
													H
	*	5320	110.47	-	-	99.81	32.44	11.25	33.03	368	131	P	V
	*	5320	101.01	-	-	90.35	32.44	11.25	33.03	368	131	A	V
		5350.72	54.32	-19.68	74	43.58	32.49	11.28	33.03	368	131	P	V
		5350.08	43.4	-10.6	54	32.66	32.49	11.28	33.03	368	131	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	44.3	-29.7	74	40.57	40.01	14.96	51.24	100	0	P	H
		15780	56.74	-17.26	74	52.68	37.87	17.99	51.8	209	314	P	H
		15780	45.47	-8.53	54	41.41	37.87	17.99	51.8	209	314	A	H
													H
		10520	43.43	-30.57	74	39.7	40.01	14.96	51.24	100	0	P	V
		15780	49.2	-24.8	74	45.14	37.87	17.99	51.8	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	41.93	-32.07	74	38.06	40.06	15.02	51.21	100	0	P	H
		15900	60.09	-13.91	74	56.42	37.43	18.04	51.8	213	354	P	H
		15900	46.01	-7.99	54	42.34	37.43	18.04	51.8	213	354	A	H
													H
		10600	42.11	-31.89	74	38.24	40.06	15.02	51.21	100	0	P	V
		15900	58.18	-15.82	74	54.51	37.43	18.04	51.8	214	27	P	V
		15900	43.39	-10.61	54	39.72	37.43	18.04	51.8	214	27	A	V
													V
802.11a CH 64 5320MHz		10640	40.21	-33.79	74	36.35	40.01	15.04	51.19	100	0	P	H
		15960	55.15	-18.85	74	51.59	37.28	18.08	51.8	200	310	P	H
		15960	44.27	-9.73	54	40.71	37.28	18.08	51.8	200	310	A	H
													H
		10640	41.43	-32.57	74	37.57	40.01	15.04	51.19	100	0	P	V
		15960	53.15	-20.85	74	49.59	37.28	18.08	51.8	220	30	P	V
		15960	41.24	-12.76	54	37.68	37.28	18.08	51.8	220	30	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5142.48	52.7	-21.3	74	44.22	31.72	10.23	33.47	265	6	P	H
		5140.92	43.05	-10.95	54	34.57	31.72	10.23	33.47	265	6	A	H
	*	5260	117.16	-	-	108.46	31.81	10.37	33.48	265	6	P	H
	*	5260	108.83	-	-	100.13	31.81	10.37	33.48	265	6	A	H
802.11ac		5421.12	51.72	-22.28	74	42.43	31.93	10.84	33.48	265	6	P	H
VHT20		5379.36	41.82	-12.18	54	32.64	31.91	10.75	33.48	265	6	A	H
CH 52		5141.96	50.09	-23.91	74	41.61	31.72	10.23	33.47	400	242	P	V
5260MHz		5141.44	40.62	-13.38	54	32.14	31.72	10.23	33.47	400	242	A	V
	*	5260	112.33	-	-	103.63	31.81	10.37	33.48	400	242	P	V
	*	5260	103.12	-	-	94.42	31.81	10.37	33.48	400	242	A	V
		5386.8	47.89	-26.11	74	38.59	31.91	10.87	33.48	400	242	P	V
		5380.8	38.46	-15.54	54	29.16	31.91	10.87	33.48	400	242	A	V
		5133.38	50.24	-23.76	74	41.78	31.71	10.22	33.47	277	8	P	H
		5148.2	39.86	-14.14	54	31.38	31.72	10.23	33.47	277	8	A	H
	*	5300	117.31	-	-	108.46	31.84	10.49	33.48	277	8	P	H
	*	5300	109.1	-	-	100.25	31.84	10.49	33.48	277	8	A	H
802.11ac		5375.04	56.59	-17.41	74	47.43	31.89	10.75	33.48	277	8	P	H
VHT20		5380.8	48.96	-5.04	54	39.66	31.91	10.87	33.48	277	8	A	H
CH 60		5139.62	48.05	-25.95	74	39.58	31.72	10.22	33.47	395	230	P	V
5300MHz		5148.2	37.86	-16.14	54	29.38	31.72	10.23	33.47	395	230	A	V
	*	5300	112.12	-	-	103.27	31.84	10.49	33.48	395	230	P	V
	*	5300	102.88	-	-	94.03	31.84	10.49	33.48	395	230	A	V
		5381.76	52.03	-21.97	74	42.73	31.91	10.87	33.48	395	230	P	V
		5377.2	41.96	-12.04	54	32.8	31.89	10.75	33.48	395	230	A	V

	*	5320	116.61	-	-	105.95	32.44	11.25	33.03	221	347	P	H
	*	5320	107.8	-	-	97.14	32.44	11.25	33.03	221	347	A	H
		5353.76	63.65	-10.35	74	52.91	32.49	11.28	33.03	221	347	P	H
		5350.08	51.96	-2.04	54	41.22	32.49	11.28	33.03	221	347	A	H
802.11ac													H
VHT20													H
CH 64	*	5320	110.59	-	-	99.93	32.44	11.25	33.03	368	131	P	V
5320MHz	*	5320	100.47	-	-	89.81	32.44	11.25	33.03	368	131	A	V
		5352.48	56.34	-17.66	74	45.6	32.49	11.28	33.03	368	131	P	V
		5350.08	44.46	-9.54	54	33.72	32.49	11.28	33.03	368	131	A	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	42.14	-31.86	74	38.51	39.91	14.96	51.24	215	354	P	H
		15780	61.92	-12.08	74	58.04	37.69	17.99	51.8	215	354	P	H
802.11ac		15780	47.01	-6.99	54	43.13	37.69	17.99	51.8	215	354	A	H
VHT20													H
CH 52		10520	41.66	-32.34	74	38.03	39.91	14.96	51.24	100	0	P	V
5260MHz		15780	55.91	-18.09	74	52.03	37.69	17.99	51.8	217	26	P	V
		15780	43.41	-10.59	54	39.53	37.69	17.99	51.8	217	26	A	V
													V
		10600	41.29	-32.71	74	37.5	39.98	15.02	51.21	100	0	P	H
		15900	56.15	-17.85	74	52.48	37.43	18.04	51.8	199	307	P	H
802.11ac		15900	47	-7	54	43.33	37.43	18.04	51.8	199	307	A	H
VHT20													H
CH 60		10600	39.62	-34.38	74	35.83	39.98	15.02	51.21	100	0	P	V
5300MHz		15900	59.18	-14.82	74	55.51	37.43	18.04	51.8	221	28	P	V
		15900	44.49	-9.51	54	40.82	37.43	18.04	51.8	221	28	A	V
													V
		10640	41.91	-32.09	74	38.05	40.01	15.04	51.19	100	0	P	H
		15960	54.85	-19.15	74	51.29	37.28	18.08	51.8	200	310	P	H
802.11ac		15960	43.5	-10.5	54	39.94	37.28	18.08	51.8	200	310	A	H
VHT20													H
CH 64		10640	41.23	-32.77	74	37.37	40.01	15.04	51.19	100	0	P	V
5320MHz		15960	52.04	-21.96	74	48.48	37.28	18.08	51.8	220	30	P	V
		15960	39.01	-14.99	54	35.45	37.28	18.08	51.8	220	30	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		5146.12	54.96	-19.04	74	44.6	32.21	11.18	33.03	389	150	P	H
		5148.98	45.84	-8.16	54	35.48	32.21	11.18	33.03	389	150	A	H
	*	5270	115.41	-	-	104.85	32.37	11.22	33.03	389	150	P	H
	*	5270	105.04	-	-	94.48	32.37	11.22	33.03	389	150	A	H
		5354.16	55.44	-18.56	74	44.7	32.49	11.28	33.03	389	150	P	H
		5351.52	47.21	-6.79	54	36.47	32.49	11.28	33.03	389	150	A	H
		5146.9	52.28	-21.72	74	41.92	32.21	11.18	33.03	400	243	P	V
		5148.46	42.65	-11.35	54	32.29	32.21	11.18	33.03	400	243	A	V
	*	5270	110.02	-	-	99.46	32.37	11.22	33.03	400	243	P	V
	*	5270	99.75	-	-	89.19	32.37	11.22	33.03	400	243	A	V
		5354.64	52.35	-21.65	74	41.61	32.49	11.28	33.03	400	243	P	V
		5351.52	43.21	-10.79	54	32.47	32.49	11.28	33.03	400	243	A	V
802.11ac VHT40 CH 62 5310MHz		5124.02	52.15	-21.85	74	41.8	32.19	11.19	33.03	385	152	P	H
		5149.24	42.09	-11.91	54	31.73	32.21	11.18	33.03	385	152	A	H
	*	5310	111.12	-	-	100.46	32.44	11.25	33.03	385	152	P	H
	*	5310	100.91	-	-	90.25	32.44	11.25	33.03	385	152	A	H
		5351.52	62.39	-11.61	74	51.65	32.49	11.28	33.03	385	152	P	H
		5350.08	52.9	-1.1	54	42.16	32.49	11.28	33.03	385	152	A	H
		5124.8	52.25	-21.75	74	41.9	32.19	11.19	33.03	384	241	P	V
		5112.32	40.84	-13.16	54	30.53	32.16	11.19	33.04	384	241	A	V
	*	5310	104.74	-	-	94.08	32.44	11.25	33.03	384	241	P	V
	*	5310	95.43	-	-	84.77	32.44	11.25	33.03	384	241	A	V
		5352	54.71	-19.29	74	43.97	32.49	11.28	33.03	384	241	P	V
		5350.56	46.08	-7.92	54	35.34	32.49	11.28	33.03	384	241	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	43.55	-30.45	74	39.88	39.93	14.96	51.22	100	0	P	H
		15810	55.83	-18.17	74	52	37.62	18.01	51.8	200	310	P	H
802.11ac		15810	45.69	-8.31	54	41.86	37.62	18.01	51.8	200	310	A	H
VHT40													H
CH 54		10540	39.63	-34.37	74	35.96	39.93	14.96	51.22	100	0	P	V
5270MHz		15810	49.95	-24.05	74	46.12	37.62	18.01	51.8	100	0	P	V
													V
													V
		10620	39.49	-34.51	74	35.66	40	15.02	51.19	100	0	P	H
		15930	52.32	-21.68	74	48.71	37.35	18.06	51.8	200	310	P	H
802.11ac		15930	43.05	-10.95	54	39.44	37.35	18.06	51.8	200	310	A	H
VHT40													H
CH 62		10620	40.27	-33.73	74	36.44	40	15.02	51.19	100	0	P	V
5310MHz		15930	49.17	-24.83	74	45.56	37.35	18.06	51.8	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5022.88	51.98	-22.02	74	41.75	32.05	11.22	33.04	341	161	P	H
		5145.6	42.51	-11.49	54	32.15	32.21	11.18	33.03	341	161	A	H
	*	5290	105.4	-	-	94.81	32.4	11.22	33.03	341	161	P	H
	*	5290	95.99	-	-	85.4	32.4	11.22	33.03	341	161	A	H
		5352.24	63.22	-10.78	74	52.48	32.49	11.28	33.03	341	161	P	H
		5350.08	52.81	-1.19	54	42.07	32.49	11.28	33.03	341	161	A	H
		5042.38	51.14	-22.86	74	40.89	32.07	11.22	33.04	344	245	P	V
		5144.82	40.72	-13.28	54	30.36	32.21	11.18	33.03	344	245	A	V
	*	5290	99.43	-	-	88.84	32.4	11.22	33.03	344	245	P	V
	*	5290	89.84	-	-	79.25	32.4	11.22	33.03	344	245	A	V
		5352.72	54.77	-19.23	74	44.03	32.49	11.28	33.03	344	245	P	V
		5350.08	45.32	-8.68	54	34.58	32.49	11.28	33.03	344	245	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	40.6	-33.4	74	36.85	39.97	14.99	51.21	100	0	P	H
		15870	46.98	-27.02	74	43.27	37.47	18.04	51.8	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	40.29	-33.71	74	36.54	39.97	14.99	51.21	100	0	P	V
5290MHz		15870	44.89	-29.11	74	41.18	37.47	18.04	51.8	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5469.68	62.27	-11.73	74	51.26	32.65	11.38	33.02	199	220	P	H
		5470	50.42	-3.58	54	39.41	32.65	11.38	33.02	199	220	A	H
	*	5500	117.79	-	-	106.73	32.7	11.38	33.02	199	220	P	H
	*	5500	109.86	-	-	98.8	32.7	11.38	33.02	199	220	A	H
													H
													H
		5419.6	53.1	-20.9	74	42.23	32.58	11.31	33.02	398	103	P	V
		5417.68	42.79	-11.21	54	31.92	32.58	11.31	33.02	398	103	A	V
	*	5500	110.78	-	-	99.72	32.7	11.38	33.02	398	103	P	V
	*	5500	102.75	-	-	91.69	32.7	11.38	33.02	398	103	A	V
													V
													V
802.11a CH 116 5580MHz		5467.6	52.4	-21.6	74	43.11	31.96	10.81	33.48	329	150	P	H
		5460.88	44.76	-9.24	54	35.49	31.94	10.81	33.48	329	150	A	H
	*	5580	117.44	-	-	108.12	32.1	10.74	33.52	329	150	P	H
	*	5580	109.96	-	-	100.64	32.1	10.74	33.52	329	150	A	H
		5737.875	49.69	-24.31	74	40.27	32.34	10.65	33.57	329	150	P	H
		5739.45	40.3	-13.7	54	30.88	32.34	10.65	33.57	329	150	A	H
		5461.36	49.07	-24.93	74	39.8	31.94	10.81	33.48	296	139	P	V
		5460.64	40.1	-13.9	54	30.83	31.94	10.81	33.48	296	139	A	V
	*	5580	111.44	-	-	102.12	32.1	10.74	33.52	296	139	P	V
	*	5580	103.04	-	-	93.72	32.1	10.74	33.52	296	139	A	V
		5745.05	47.72	-26.28	74	38.32	32.34	10.63	33.57	296	139	P	V
		5741.375	37.47	-16.53	54	28.07	32.34	10.63	33.57	296	139	A	V

802.11a CH 140 5700MHz	*	5700	117.32	-	-	106	32.97	11.47	33.12	213	353	P	H
	*	5700	107.88	-	-	96.56	32.97	11.47	33.12	213	353	A	H
		5725.64	67.64	-0.56	68.2	56.3	33.01	11.46	33.13	213	353	P	H
													H
													H
													H
	*	5700	107.08	-	-	95.76	32.97	11.47	33.12	369	106	P	V
	*	5700	97.43	-	-	86.11	32.97	11.47	33.12	369	106	A	V
		5725.16	55.38	-12.82	68.2	44.04	33.01	11.46	33.13	369	106	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	43.44	-30.56	74	38.9	40.3	15.27	51.03	100	0	P	H
		16500	53.92	-14.28	68.2	48.5	39	18.29	51.87	198	316	P	H
		16500	44.21	-9.79	54	38.79	39	18.29	51.87	198	316	A	H
													H
		11000	42.46	-31.54	74	37.92	40.3	15.27	51.03	100	0	P	V
		16500	52.49	-15.71	68.2	47.07	39	18.29	51.87	218	36	P	V
		16500	41.72	-12.28	54	36.3	39	18.29	51.87	218	36	A	V
													V
802.11a CH 116 5580MHz		11160	44.04	-29.96	74	39.45	40.3	15.38	51.09	100	0	P	H
		16740	56.9	-17.1	74	50.55	39.87	18.39	51.91	200	301	P	H
		16740	45.98	-8.02	54	39.63	39.87	18.39	51.91	200	301	A	H
													H
		11160	40.8	-33.2	74	36.21	40.3	15.38	51.09	100	0	P	V
		16740	53.24	-20.76	74	46.89	39.87	18.39	51.91	217	33	P	V
		16740	41.23	-12.77	54	34.88	39.87	18.39	51.91	217	33	A	V
													V
802.11a CH 140 5700MHz		11400	41.41	-32.59	74	36.77	40.3	15.53	51.19	100	0	P	H
		17100	54.13	-14.07	68.2	46.41	41.16	18.53	51.97	198	299	P	H
		17100	44.66	-9.34	54	36.94	41.16	18.53	51.97	198	299	A	H
													H
		11400	41.09	-32.91	74	36.45	40.3	15.53	51.19	100	0	P	V
		17100	52.85	-15.35	68.2	45.13	41.16	18.53	51.97	218	13	P	V
		17100	42.38	-11.62	54	34.66	41.16	18.53	51.97	218	13	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5466.32	63.63	-10.37	74	52.62	32.65	11.38	33.02	289	12	P	H
		5470	51.36	-2.64	54	40.35	32.65	11.38	33.02	289	12	A	H
	*	5500	117.82	-	-	106.76	32.7	11.38	33.02	289	12	P	H
	*	5500	109.38	-	-	98.32	32.7	11.38	33.02	289	12	A	H
802.11ac													H
VHT20													H
CH 100		5466.64	56.53	-17.47	74	45.52	32.65	11.38	33.02	225	145	P	V
5500MHz		5470	45.17	-8.83	54	34.16	32.65	11.38	33.02	225	145	A	V
	*	5500	111.42	-	-	100.36	32.7	11.38	33.02	225	145	P	V
	*	5500	103.04	-	-	91.98	32.7	11.38	33.02	225	145	A	V
													V
													V
		5463.28	53.67	-20.33	74	44.38	31.96	10.81	33.48	319	151	P	H
		5462.8	45.23	-8.77	54	35.94	31.96	10.81	33.48	319	151	A	H
	*	5580	119.43	-	-	110.11	32.1	10.74	33.52	319	151	P	H
	*	5580	110.43	-	-	101.11	32.1	10.74	33.52	319	151	A	H
802.11ac		5747.325	50.45	-23.55	74	41.05	32.34	10.63	33.57	319	151	P	H
VHT20		5740.675	40.83	-13.17	54	31.43	32.34	10.63	33.57	319	151	A	H
CH 116		5463.28	47.51	-26.49	74	38.22	31.96	10.81	33.48	267	141	P	V
5580MHz		5461.12	39.55	-14.45	54	30.28	31.94	10.81	33.48	267	141	A	V
	*	5580	110.99	-	-	101.67	32.1	10.74	33.52	267	141	P	V
	*	5580	102.93	-	-	93.61	32.1	10.74	33.52	267	141	A	V
		5745.4	49	-25	74	39.6	32.34	10.63	33.57	267	141	P	V
		5743.3	37.37	-16.63	54	27.97	32.34	10.63	33.57	267	141	A	V

	*	5700	114.34	-	-	103.02	32.97	11.47	33.12	284	14	P	H
	*	5700	105.28	-	-	93.96	32.97	11.47	33.12	284	14	A	H
		5725.08	67.77	-0.43	68.2	56.43	33.01	11.46	33.13	284	14	P	H
													H
802.11ac													H
VHT20													H
CH 140	*	5700	109.42	-	-	98.1	32.97	11.47	33.12	307	298	P	V
5700MHz	*	5700	99.68	-	-	88.36	32.97	11.47	33.12	307	298	A	V
		5725.08	59.9	-8.3	68.2	48.56	33.01	11.46	33.13	307	298	P	V
													V
													V
													V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	43.87	-30.13	74	39.33	40.3	15.27	51.03	100	0	P	H
		16500	54.52	-13.68	68.2	49.1	39	18.29	51.87	198	316	P	H
802.11ac		16500	44.95	-9.05	54	39.53	39	18.29	51.87	198	316	A	H
VHT20													H
CH 100		11000	43.19	-30.81	74	38.65	40.3	15.27	51.03	100	0	P	V
5500MHz		16500	53.22	-14.98	68.2	47.8	39	18.29	51.87	218	36	P	V
		16500	42.48	-11.52	54	37.06	39	18.29	51.87	218	36	A	V
													V
		11160	45.44	-28.56	74	40.85	40.3	15.38	51.09	100	0	P	H
		16740	57.58	-16.42	74	51.23	39.87	18.39	51.91	200	301	P	H
802.11ac		16740	46.91	-7.09	54	40.56	39.87	18.39	51.91	200	301	A	H
VHT20													H
CH 116		11160	42.1	-31.9	74	37.51	40.3	15.38	51.09	100	0	P	V
5580MHz		16740	53.92	-20.08	74	47.57	39.87	18.39	51.91	217	33	P	V
		16740	41.99	-12.01	54	35.64	39.87	18.39	51.91	217	33	A	V
													V
		11400	40.67	-33.33	74	36.03	40.3	15.53	51.19	100	0	P	H
		17100	53.62	-14.58	68.2	45.9	41.16	18.53	51.97	198	299	P	H
802.11ac		17100	44.05	-9.95	54	36.33	41.16	18.53	51.97	198	299	A	H
VHT20													H
CH 140		11400	40.52	-33.48	74	35.88	40.3	15.53	51.19	100	0	P	V
5700MHz		17100	52.29	-15.91	68.2	44.57	41.16	18.53	51.97	218	13	P	V
		17100	41.75	-12.25	54	34.03	41.16	18.53	51.97	218	13	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.92	58.29	-15.71	74	47.34	32.63	11.34	33.02	294	16	P	H
		5469.76	66.53	-1.67	68.2	55.52	32.65	11.38	33.02	294	16	P	H
		5459.92	48.86	-5.14	54	37.91	32.63	11.34	33.02	294	16	A	H
	*	5510	110.51	-	-	99.43	32.7	11.41	33.03	294	16	P	H
802.11ac	*	5510	100.93	-	-	89.85	32.7	11.41	33.03	294	16	A	H
VHT40		5749.775	50.97	-17.23	68.2	39.62	33.04	11.46	33.15	294	16	P	H
CH 102		5419.84	51.94	-22.06	74	41.07	32.58	11.31	33.02	241	146	P	V
5510MHz		5469.76	59.85	-8.35	68.2	48.84	32.65	11.38	33.02	241	146	P	V
		5459.92	43.31	-10.69	54	32.36	32.63	11.34	33.02	241	146	A	V
	*	5510	103.49	-	-	92.41	32.7	11.41	33.03	241	146	P	V
	*	5510	94.12	-	-	83.04	32.7	11.41	33.03	241	146	A	V
		5751.35	50.04	-18.16	68.2	38.69	33.04	11.46	33.15	241	146	P	V
		5086	57.54	-16.46	74	49.13	31.67	10.21	33.47	275	155	P	H
		5086	47.62	-6.38	54	39.21	31.67	10.21	33.47	275	155	A	H
		5468.08	60.41	-13.59	74	51.12	31.96	10.81	33.48	275	155	P	H
		5469.28	50.03	-3.97	54	40.74	31.96	10.81	33.48	275	155	A	H
	*	5550	113.92	-	-	104.61	32.07	10.74	33.5	275	155	P	H
802.11ac	*	5550	105.44	-	-	96.13	32.07	10.74	33.5	275	155	A	H
VHT40		5740.15	49.59	-24.41	74	40.19	32.34	10.63	33.57	275	155	P	H
CH 110		5725.275	39.77	-14.23	54	30.38	32.31	10.65	33.57	275	155	A	H
5550MHz		5468.32	54.28	-19.72	74	44.99	31.96	10.81	33.48	247	138	P	V
		5469.04	43.93	-10.07	54	34.64	31.96	10.81	33.48	247	138	A	V
	*	5550	105.16	-	-	95.85	32.07	10.74	33.5	247	138	P	V
	*	5550	97	-	-	87.69	32.07	10.74	33.5	247	138	A	V
		5730.175	47.79	-26.21	74	38.4	32.31	10.65	33.57	247	138	P	V
		5751	37.22	-16.78	54	27.82	32.34	10.63	33.57	247	138	A	V

		5441.44	52.8	-21.2	74	41.87	32.61	11.34	33.02	189	353	P	H
		5470	50.97	-17.23	68.2	39.96	32.65	11.38	33.02	189	353	P	H
		5459.44	41.37	-12.63	54	30.42	32.63	11.34	33.02	189	353	A	H
	*	5670	114.85	-	-	103.55	32.94	11.47	33.11	189	353	P	H
802.11ac	*	5670	105.67	-	-	94.37	32.94	11.47	33.11	189	353	A	H
VHT40		5730.525	67.67	-0.53	68.2	56.35	33.01	11.46	33.15	189	353	P	H
CH 134		5440.72	50.38	-23.62	74	39.45	32.61	11.34	33.02	376	110	P	V
5670MHz		5460.16	49.71	-18.49	68.2	38.72	32.63	11.38	33.02	376	110	P	V
		5458.48	40.04	-13.96	54	29.09	32.63	11.34	33.02	376	110	A	V
	*	5670	106.65	-	-	95.35	32.94	11.47	33.11	376	110	P	V
	*	5670	98.86	-	-	87.56	32.94	11.47	33.11	376	110	A	V
		5735.775	55.02	-13.18	68.2	43.67	33.04	11.46	33.15	376	110	P	V

Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	43.19	-30.81	74	38.65	40.3	15.27	51.03	100	0	P	H
		16530	48.79	-19.41	68.2	43.23	39.12	18.31	51.87	100	0	P	H
802.11ac													H
VHT40													H
CH 102		11020	42.28	-31.72	74	37.74	40.3	15.27	51.03	100	0	P	V
5510MHz		16530	45.95	-22.25	68.2	40.39	39.12	18.31	51.87	100	0	P	V
													V
													V
		11100	41.34	-32.66	74	36.77	40.3	15.33	51.06	100	0	P	H
		16650	52.68	-21.32	74	46.66	39.56	18.36	51.9	195	302	P	H
802.11ac		16650	43.86	-10.14	54	37.84	39.56	18.36	51.9	195	302	A	H
VHT40													H
CH 110		11100	40.54	-33.46	74	35.97	40.3	15.33	51.06	100	0	P	V
5550MHz		16650	51.18	-22.82	74	45.16	39.56	18.36	51.9	100	0	P	V
													V
													V
		11340	42.94	-31.06	74	38.34	40.3	15.48	51.18	100	0	P	H
		17010	52.81	-15.39	68.2	45.41	40.86	18.5	51.96	200	302	P	H
802.11ac													H
VHT40													H
CH 134		11340	42.86	-31.14	74	38.26	40.3	15.48	51.18	100	0	P	V
5670MHz		17010	48.57	-19.63	68.2	41.17	40.86	18.5	51.96	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.68	62.94	-11.06	74	51.99	32.63	11.34	33.02	283	340	P	H
		5465.92	65.84	-2.36	68.2	54.83	32.65	11.38	33.02	283	340	P	H
		5459.92	53.53	-0.47	54	42.58	32.63	11.34	33.02	283	340	A	H
	*	5530	106.69	-	-	95.61	32.72	11.41	33.05	283	340	P	H
802.11ac	*	5530	96.67	-	-	85.59	32.72	11.41	33.05	283	340	A	H
VHT80		5735.425	51.91	-16.29	68.2	40.56	33.04	11.46	33.15	283	340	P	H
CH 106		5447.2	58.42	-15.58	74	47.47	32.63	11.34	33.02	368	241	P	V
5530MHz		5468.56	59.44	-8.76	68.2	48.43	32.65	11.38	33.02	368	241	P	V
		5455.12	48.73	-5.27	54	37.78	32.63	11.34	33.02	368	241	A	V
	*	5530	101.21	-	-	90.13	32.72	11.41	33.05	368	241	P	V
	*	5530	91.13	-	-	80.05	32.72	11.41	33.05	368	241	A	V
		5738.05	50.48	-17.72	68.2	39.13	33.04	11.46	33.15	368	241	P	V
		5098	60.92	-13.08	74	50.61	32.14	11.21	33.04	100	359	P	H
		5098	53.33	-0.67	54	43.02	32.14	11.21	33.04	100	359	A	H
		5459.44	58.59	-15.41	74	47.64	32.63	11.34	33.02	100	359	P	H
		5469.52	61.7	-6.5	68.2	50.69	32.65	11.38	33.02	100	359	P	H
		5459.68	47.88	-6.12	54	36.93	32.63	11.34	33.02	100	359	A	H
802.11ac	*	5610	113.14	-	-	101.9	32.84	11.48	33.08	100	359	P	H
VHT80	*	5610	104.59	-	-	93.35	32.84	11.48	33.08	100	359	A	H
CH 122		5725.8	64.94	-3.26	68.2	53.6	33.01	11.46	33.13	100	359	P	H
5610MHz		5452.72	52.47	-21.53	74	41.52	32.63	11.34	33.02	397	323	P	V
		5466.88	53	-15.2	68.2	41.99	32.65	11.38	33.02	397	323	P	V
		5459.44	41.76	-12.24	54	30.81	32.63	11.34	33.02	397	323	A	V
	*	5610	104.24	-	-	93	32.84	11.48	33.08	397	323	P	V
	*	5610	95.72	-	-	84.48	32.84	11.48	33.08	397	323	A	V
		5732.625	58.5	-9.7	68.2	47.18	33.01	11.46	33.15	397	323	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	43.02	-30.98	74	38.47	40.3	15.3	51.05	100	0	P	H
		16590	41.61	-26.59	68.2	35.84	39.31	18.34	51.88	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	42.55	-31.45	74	38	40.3	15.3	51.05	100	0	P	V
5530MHz		16590	42.94	-25.26	68.2	37.17	39.31	18.34	51.88	100	0	P	V
													V
													V
		11220	40.88	-33.12	74	36.99	39.38	15.64	51.13	100	0	P	H
		16830	47.5	-20.7	68.2	38.51	41.03	19.89	51.93	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	41.16	-32.84	74	37.27	39.38	15.64	51.13	100	0	P	V
5610MHz		16830	45.5	-22.7	68.2	36.51	41.03	19.89	51.93	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Emission below 1GHz

WIFI 802.11ac VHT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 LF		30.81	23.93	-16.07	40	29.95	25.18	1.29	32.49			P	H
		108.03	21.42	-22.08	43.5	35.17	16.98	1.78	32.51			P	H
		187.14	25.02	-18.48	43.5	40.49	15.27	2.1	32.84			P	H
		813.1	30.62	-15.38	46	30.02	28.45	4.26	32.11			P	H
		911.1	33.31	-12.69	46	30.74	29.5	4.63	31.56			P	H
		955.9	33.55	-12.45	46	29.41	30.59	4.69	31.14	164	308	P	H
													H
													H
													H
													H
													H
													H
		30.27	36.65	-3.35	40	42.16	25.7	1.29	32.5	251	166	P	V
		44.58	31.4	-8.6	40	45.1	17.5	1.29	32.49			P	V
		50.25	30.63	-9.37	40	46.93	14.9	1.29	32.49			P	V
		679.4	29.2	-16.8	46	31.24	26.49	3.94	32.47			P	V
		917.4	32.75	-13.25	46	29.93	29.69	4.63	31.5			P	V
		948.9	32.93	-13.07	46	28.88	30.57	4.69	31.21			P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

Appendix C. Radiated Spurious Emission

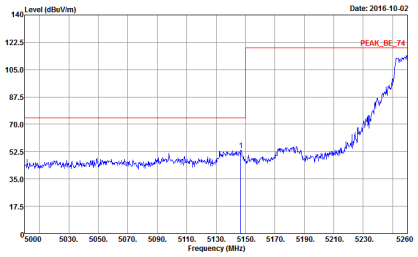
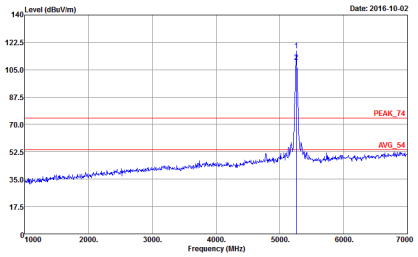
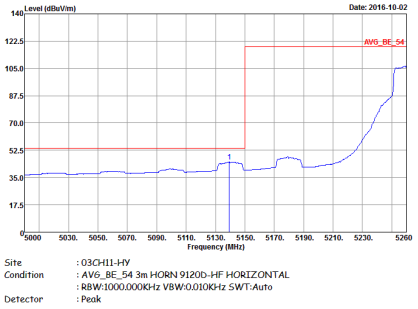
Test Engineer :	J.C. Liang and Jacky Hung	**Temperature :**	20~23°C
		Relative Humidity :	50~54%

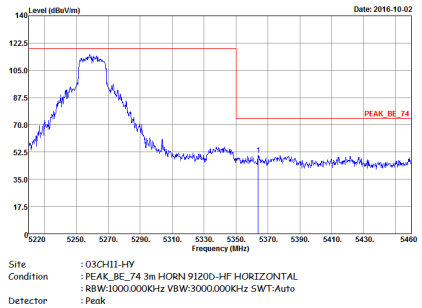
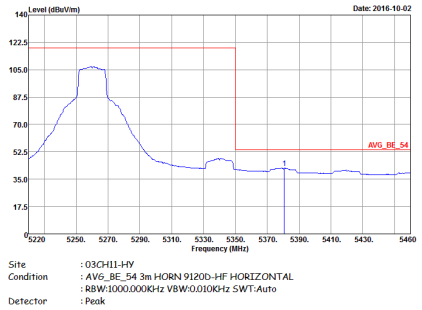
Note symbol

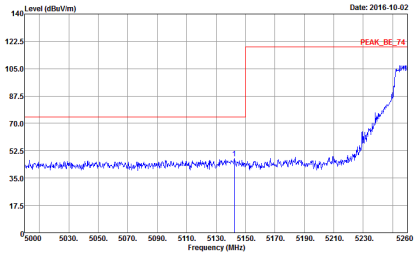
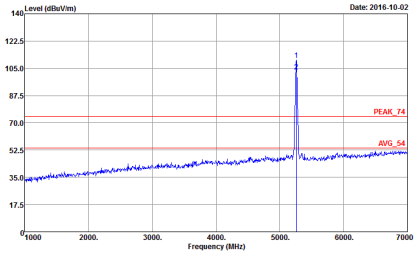
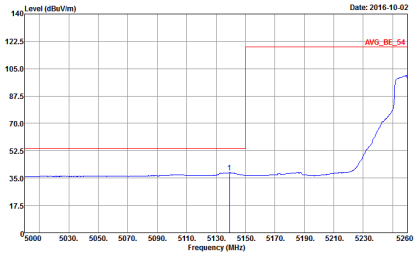
-L	**Low channel location**
-R	**High channel location**

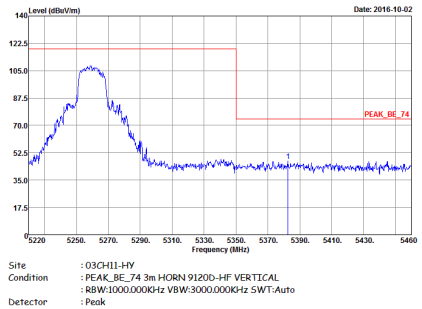
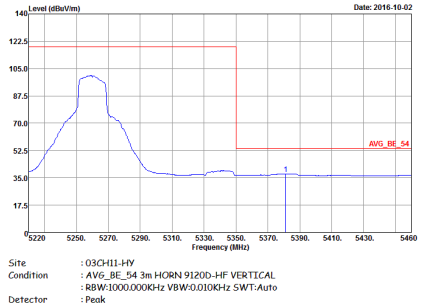
Band 2 - 5250~5350MHz

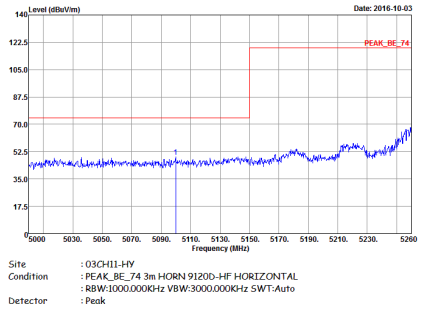
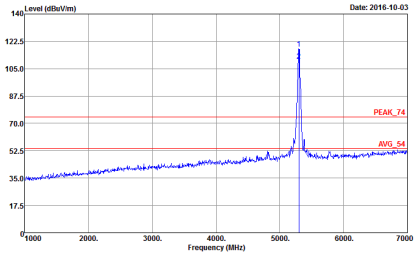
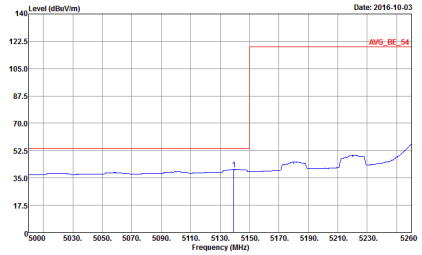
WIFI 802.11a (Band Edge @ 3m)

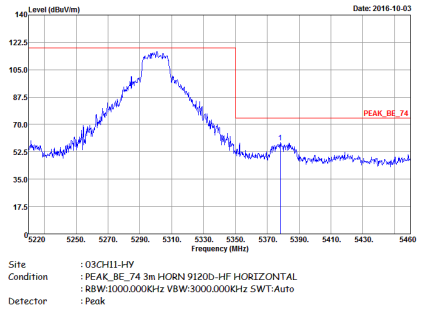
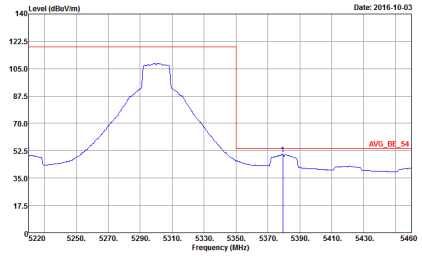
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

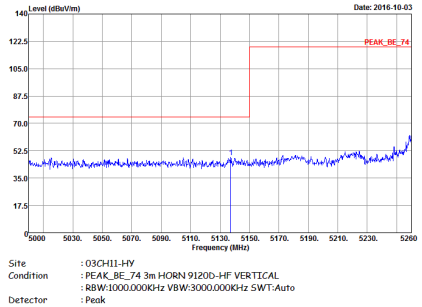
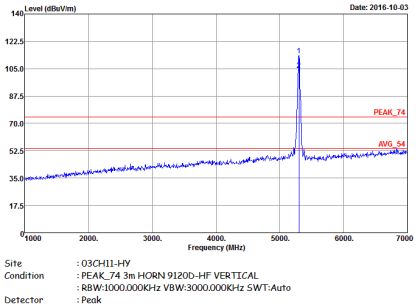
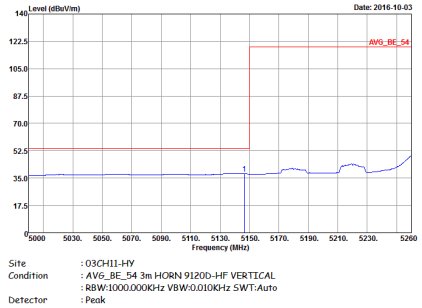
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

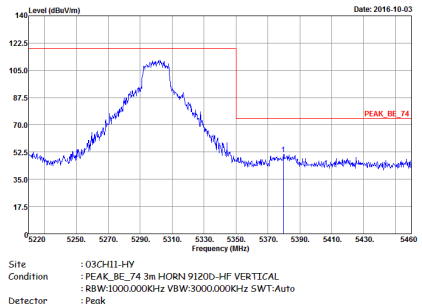
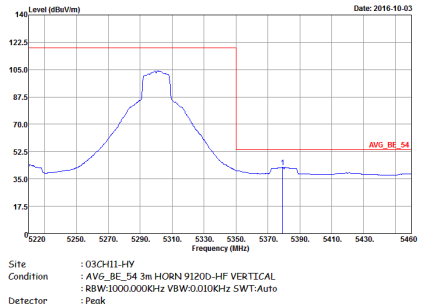
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

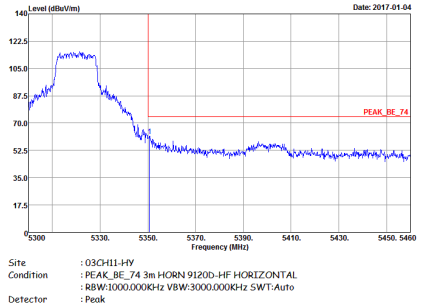
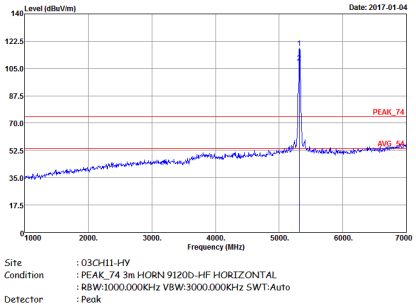
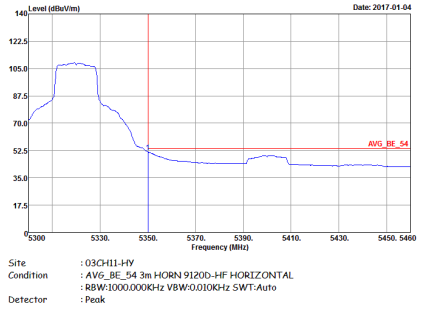
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

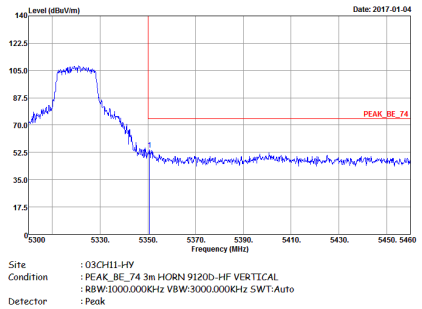
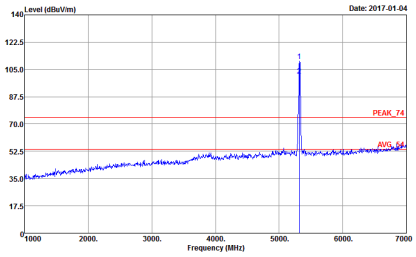
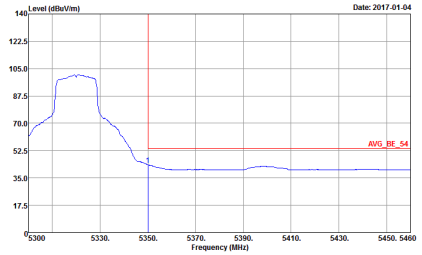
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

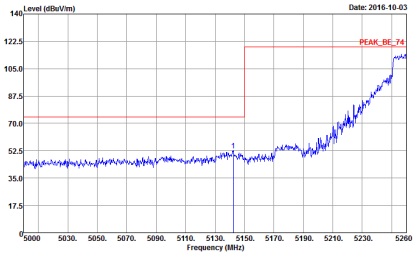
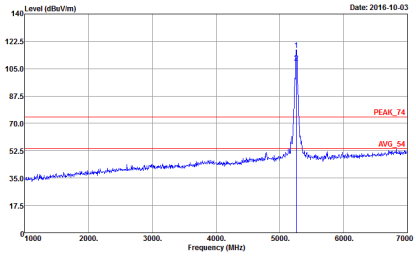
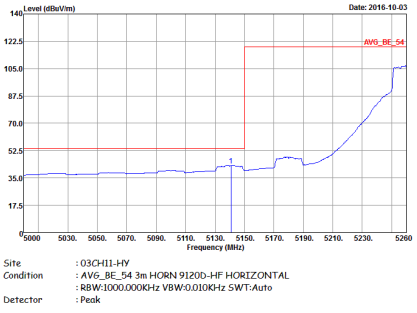
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

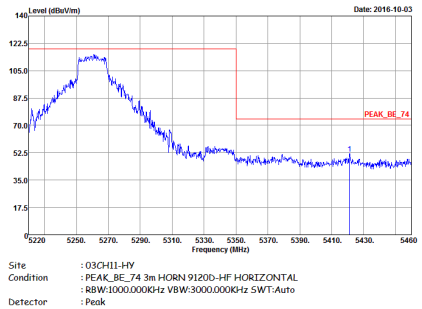
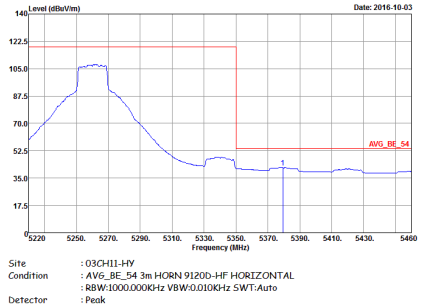
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

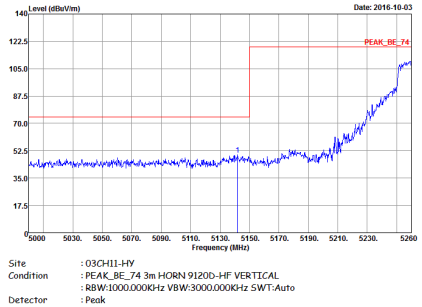
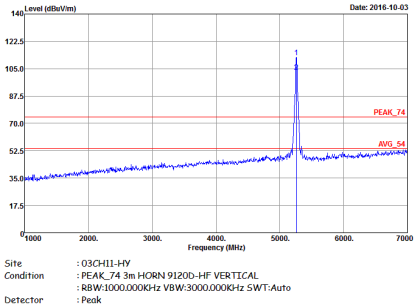
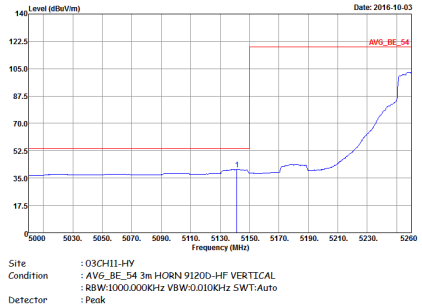
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

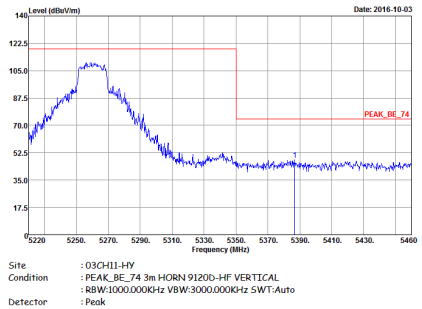
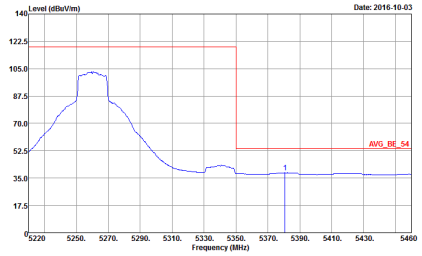
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

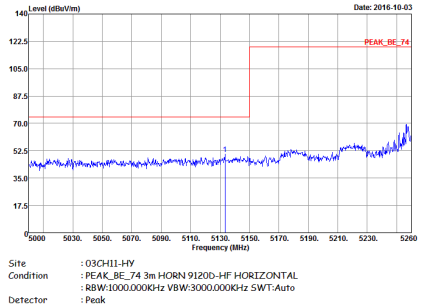
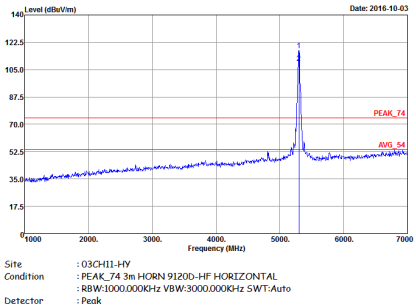
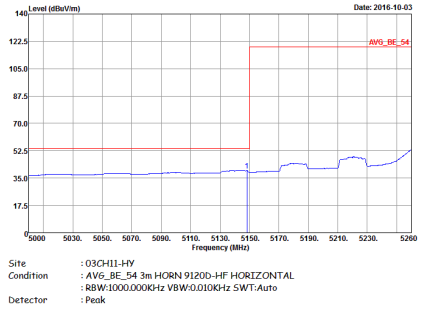
Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

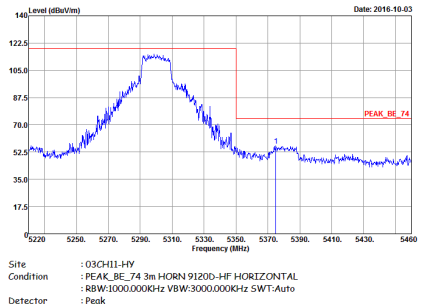
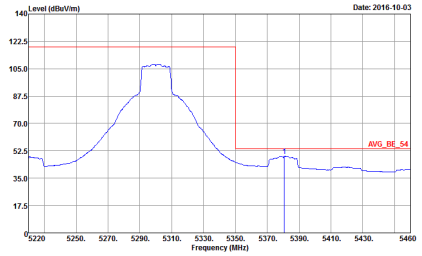
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

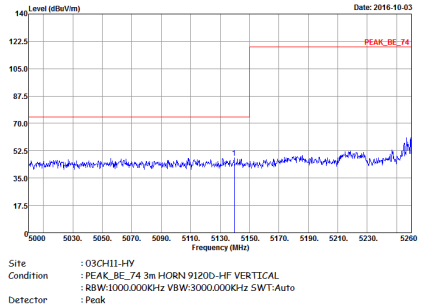
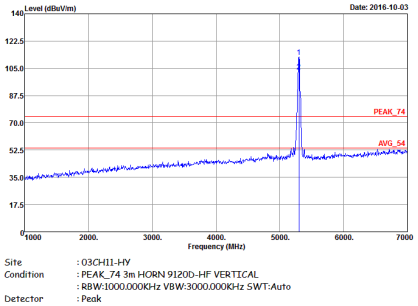
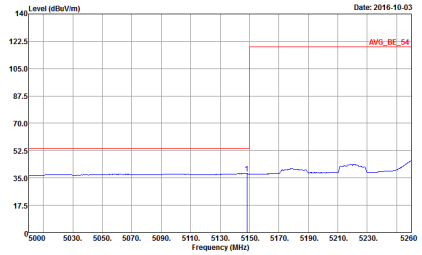
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

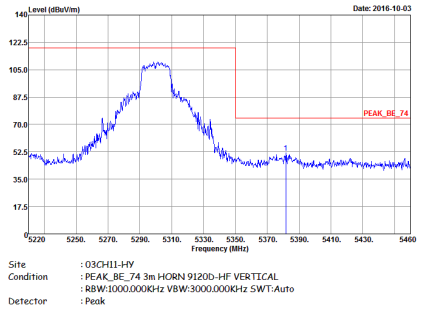
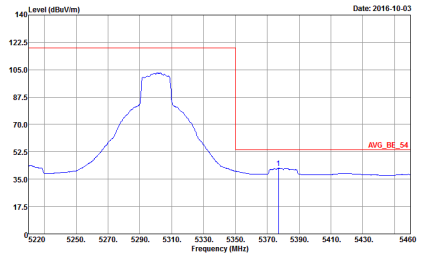
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

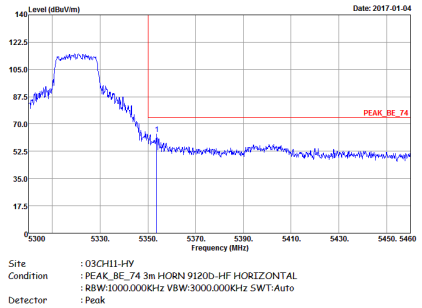
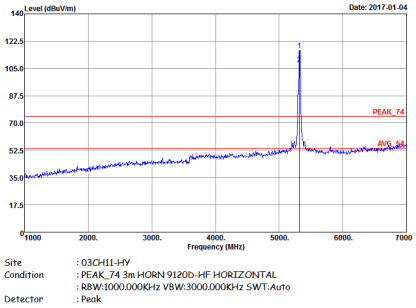
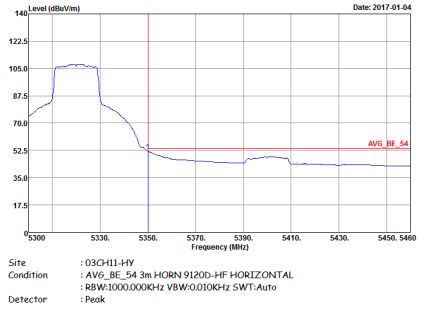
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

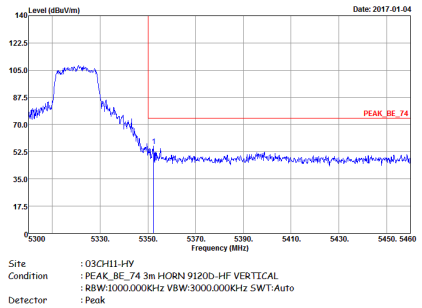
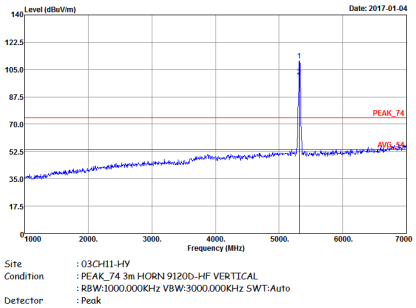
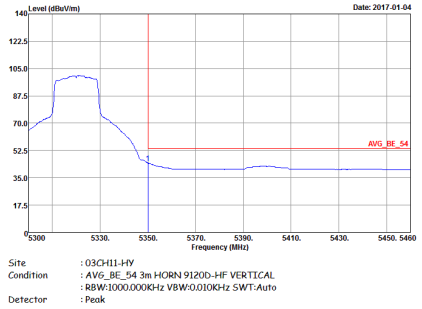
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

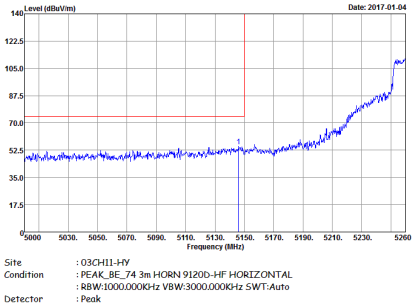
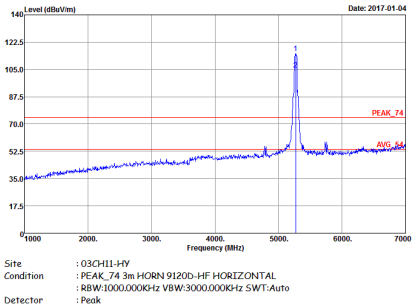
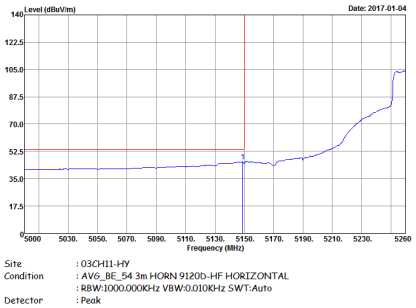
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

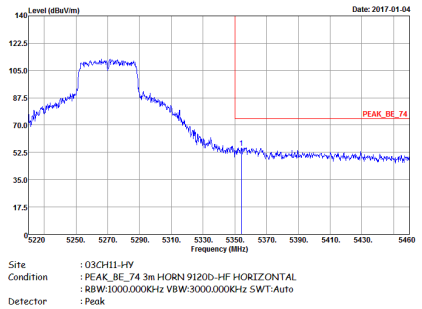
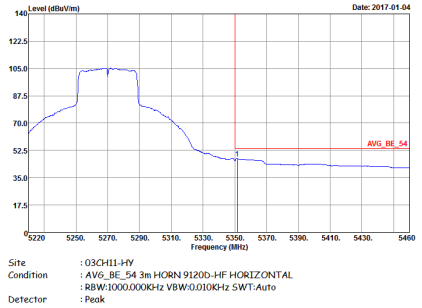
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

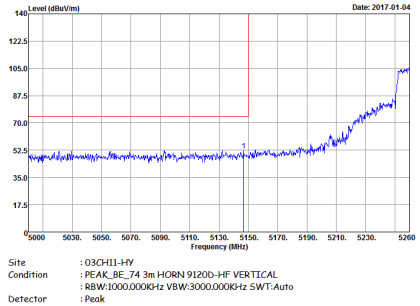
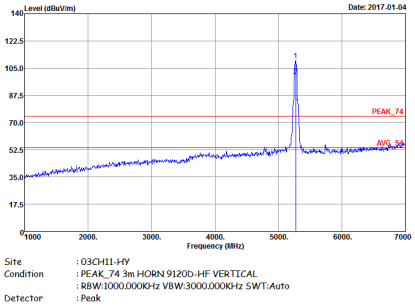
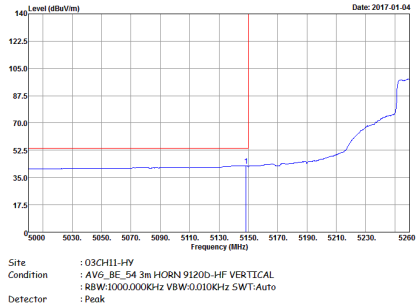
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

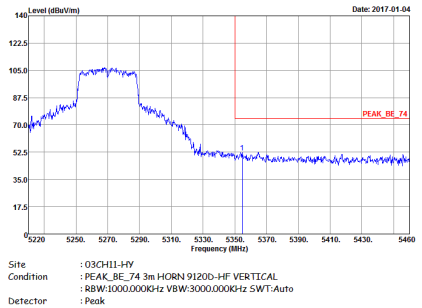
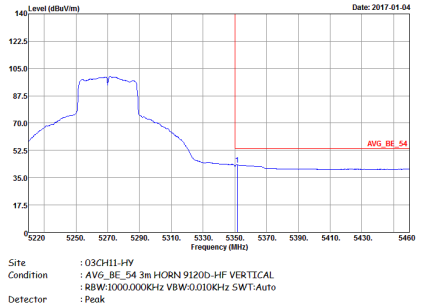
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

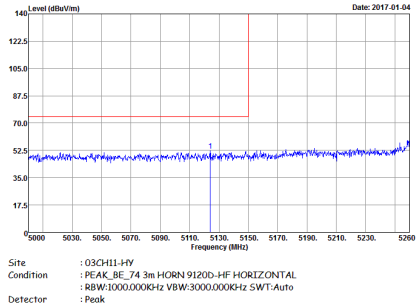
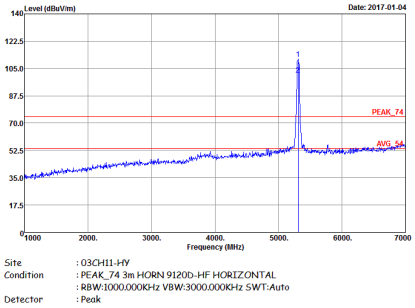
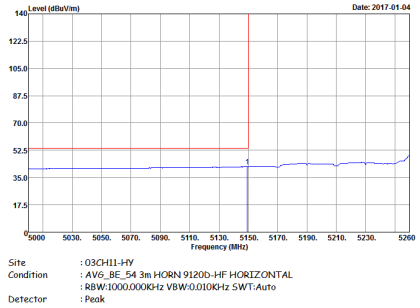
Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

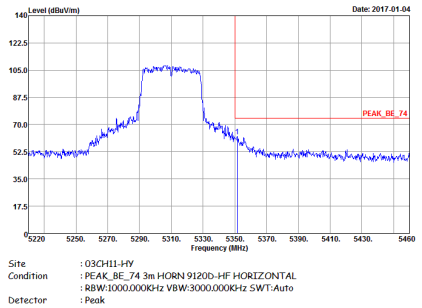
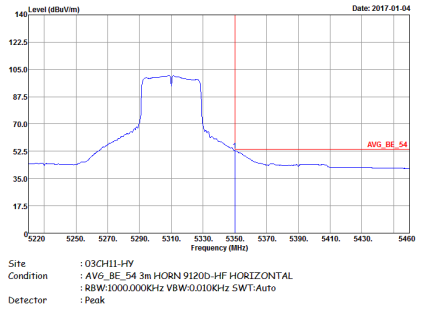
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

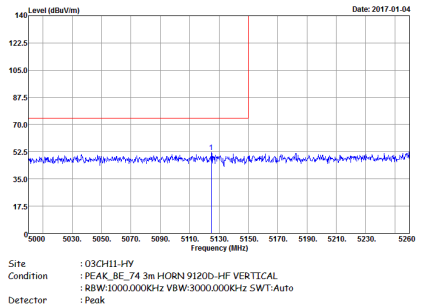
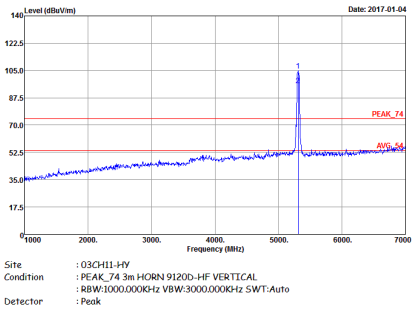
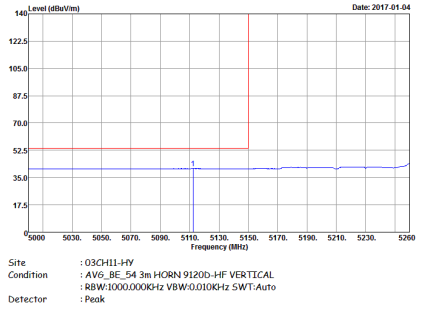
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

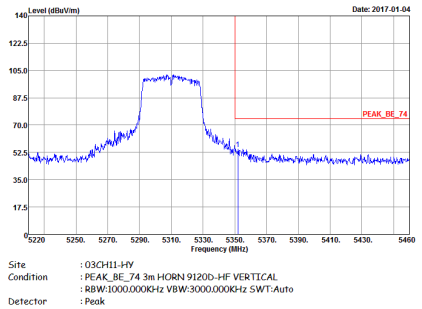
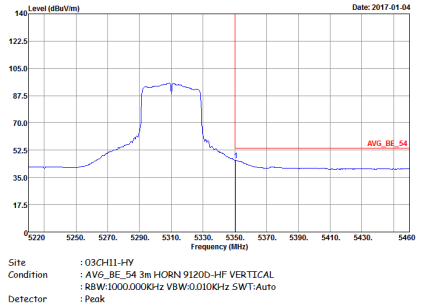
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH54 5270 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

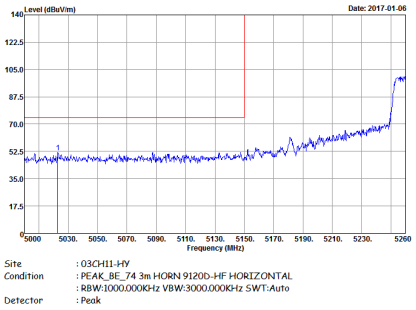
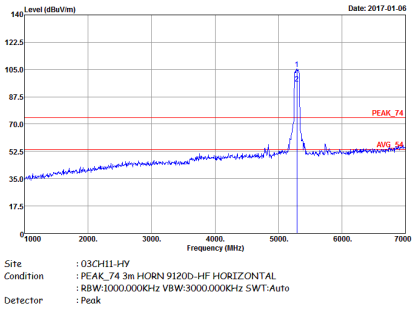
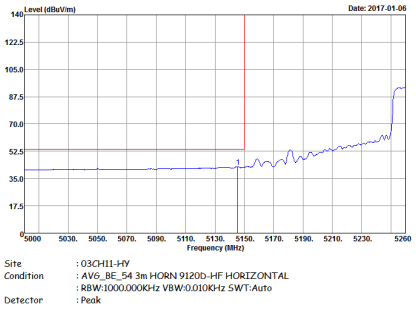
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

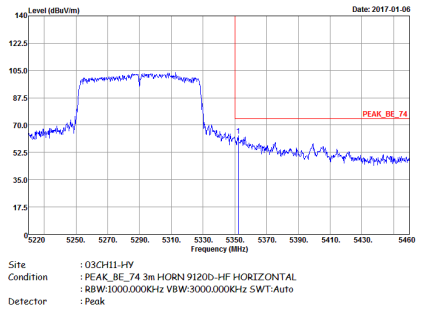
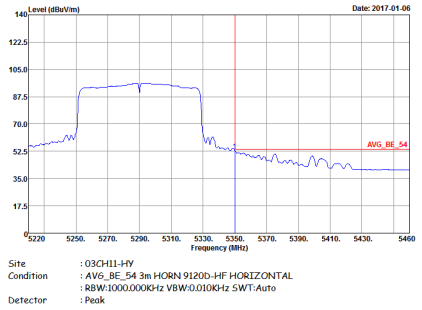
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

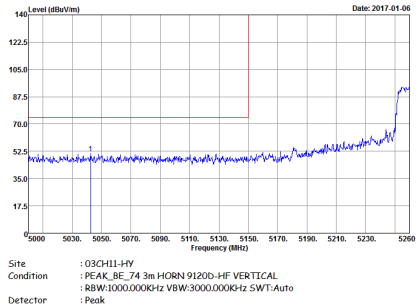
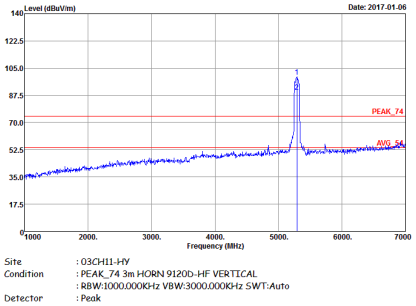
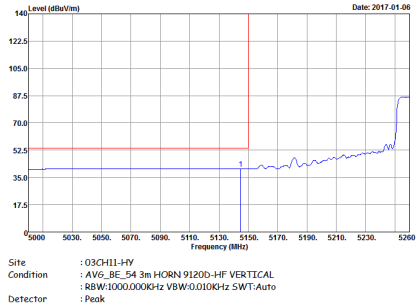
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

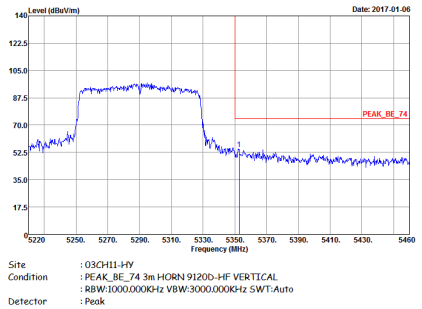
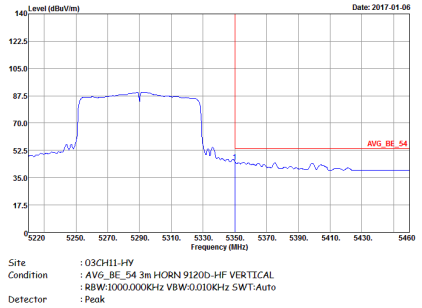
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

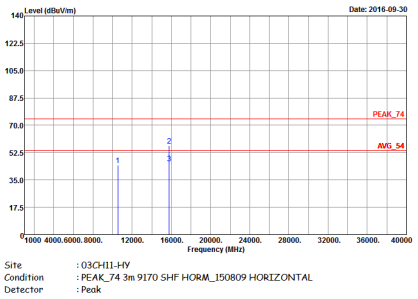
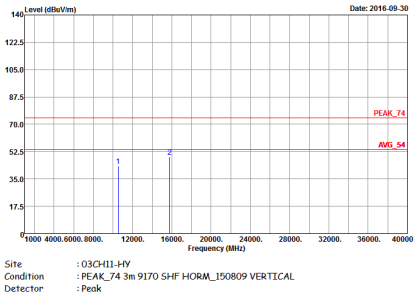
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

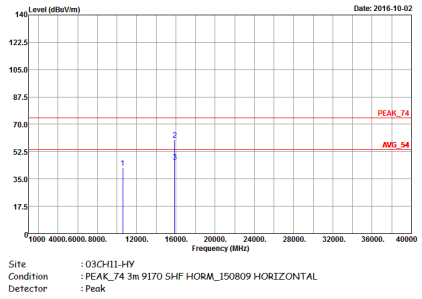
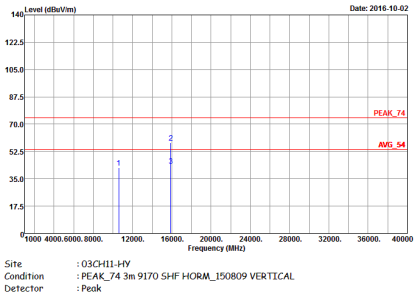
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

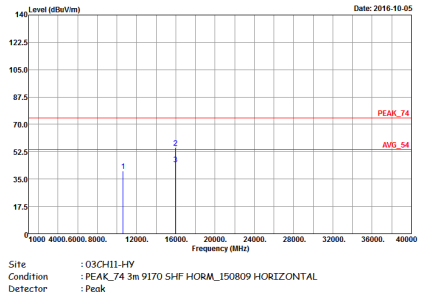
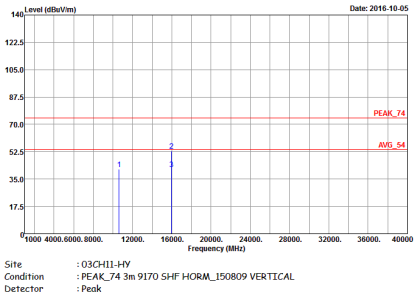
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 2 - 5250~5350MHz

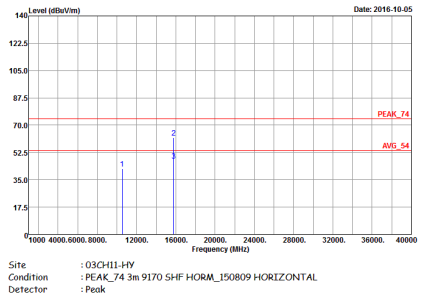
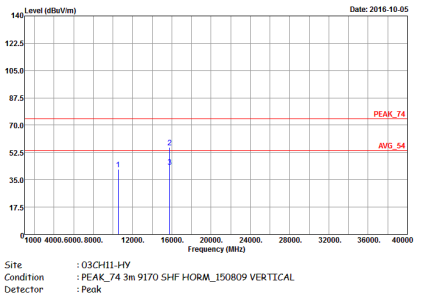
WIFI 802.11a (Harmonic @ 3m)

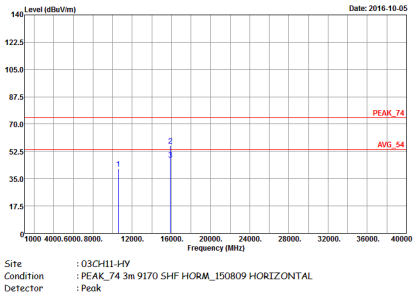
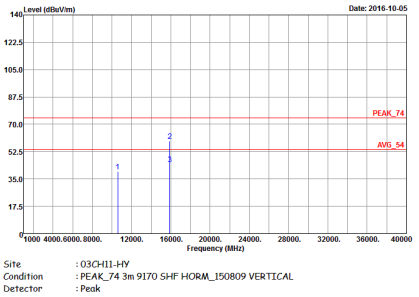
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

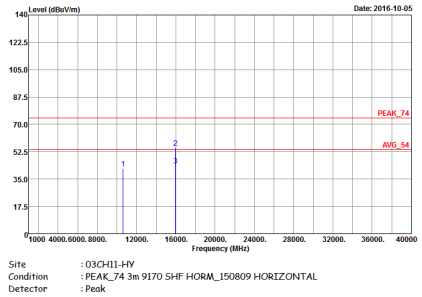
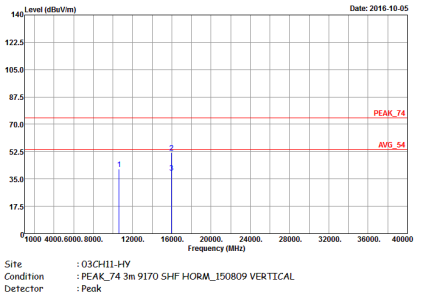
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

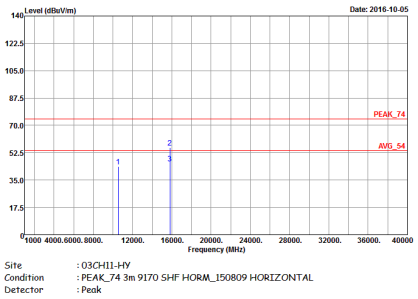
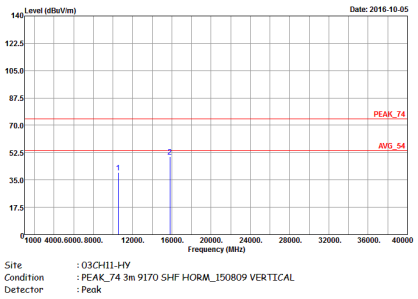
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.		

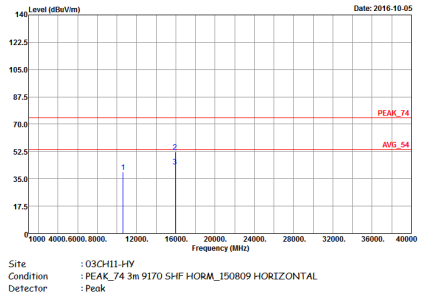
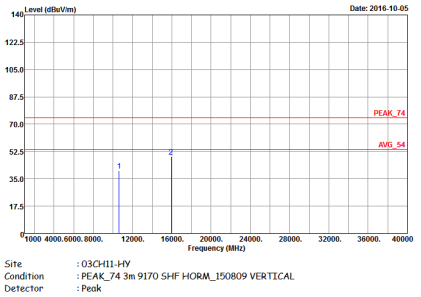
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

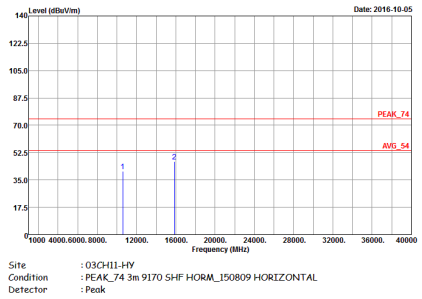
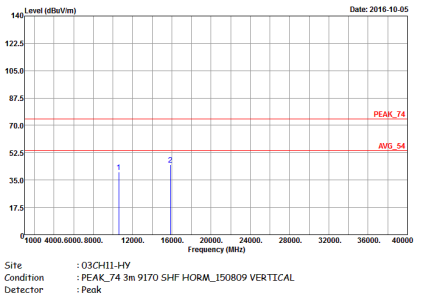
WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH54 5270	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.		

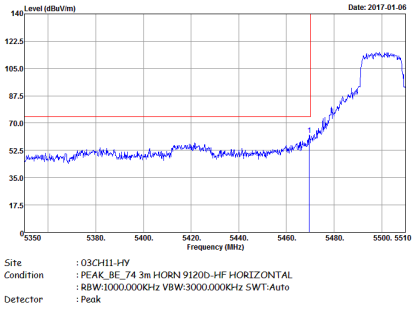
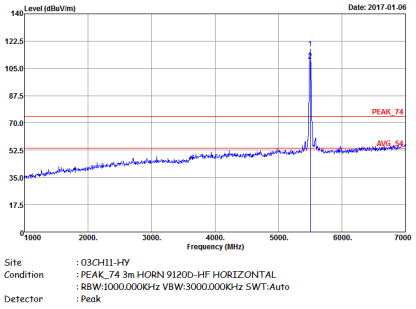
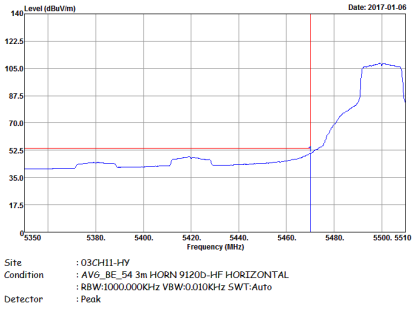
Band 2 5250~5350MHz

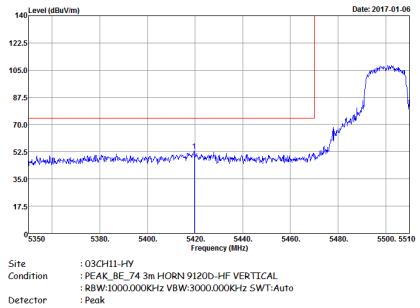
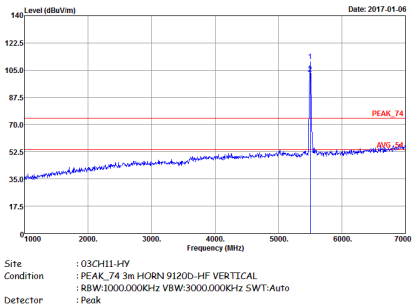
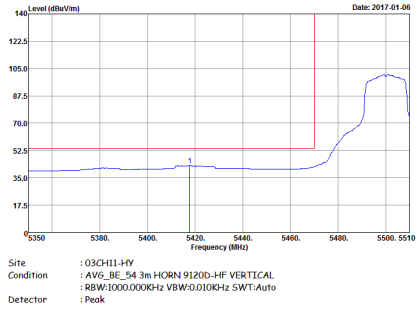
WIFI 802.11ac VHT80 (Harmonic @ 3m)

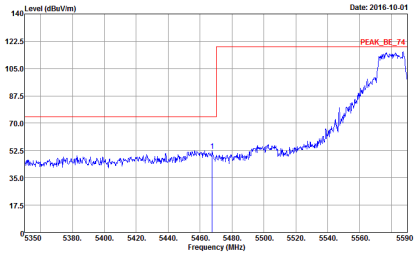
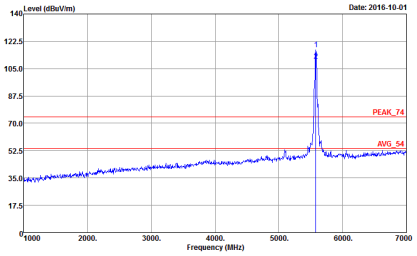
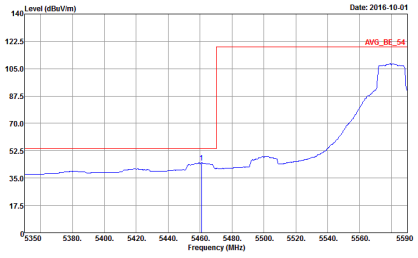
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.		

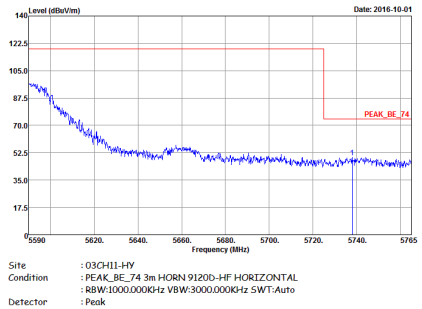
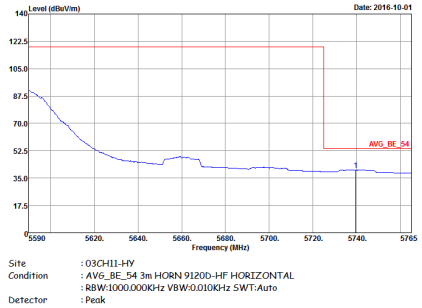
Band 3 - 5470~5725MHz

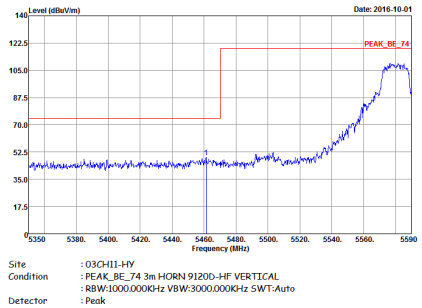
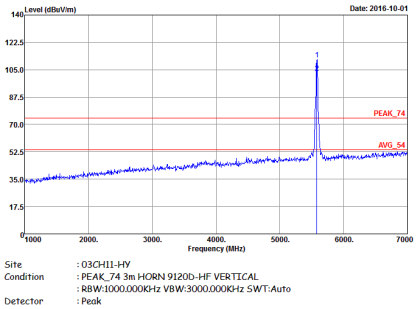
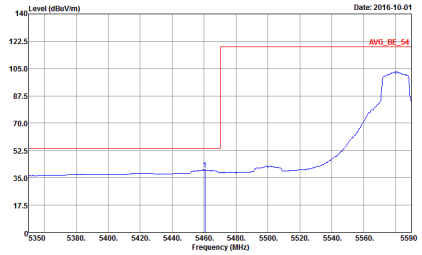
WIFI 802.11a (Band Edge @ 3m)

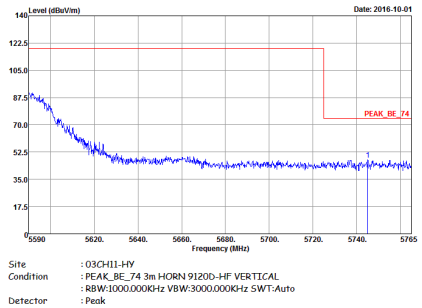
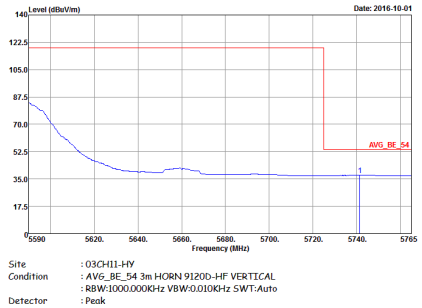
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

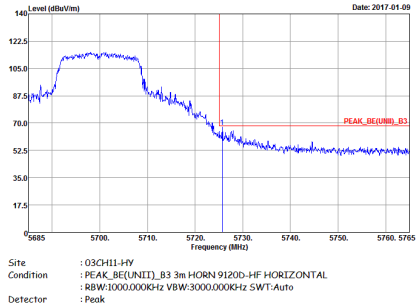
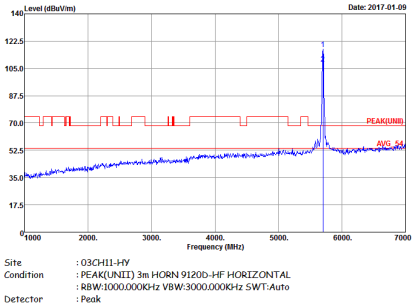
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

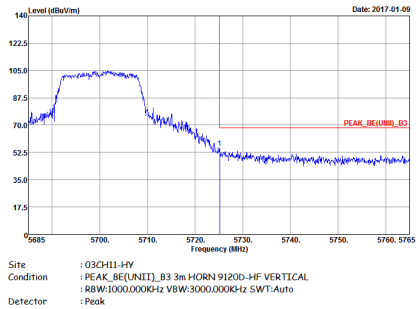
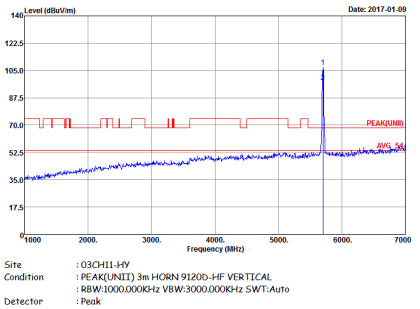
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

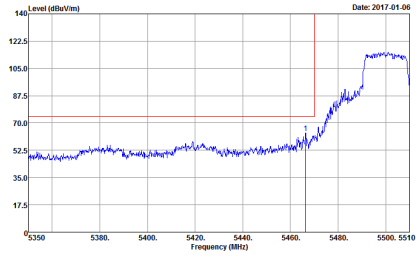
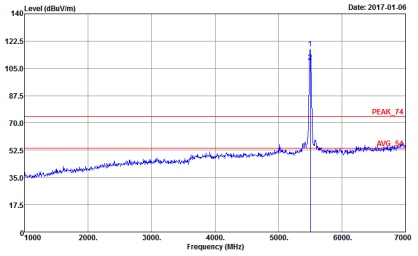
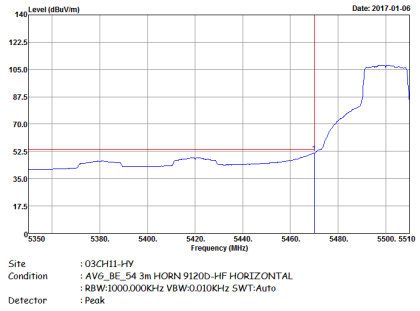
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

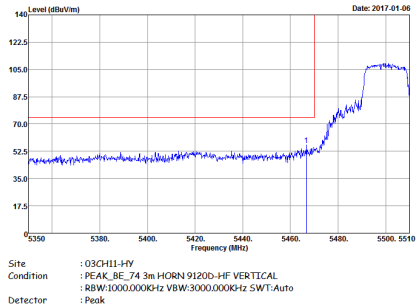
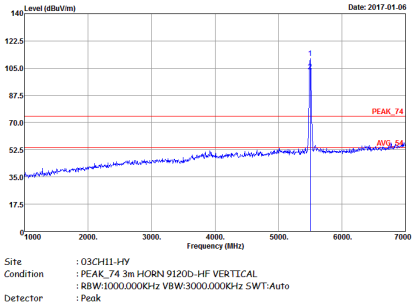
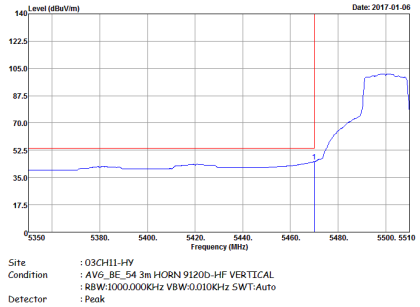
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

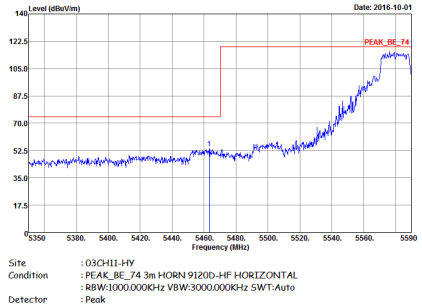
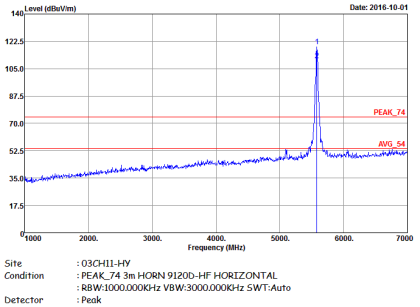
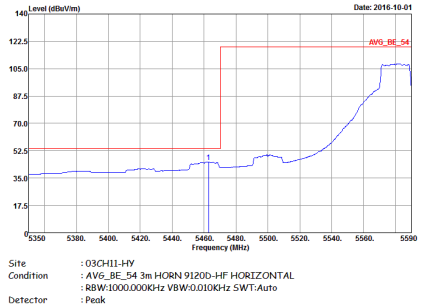
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

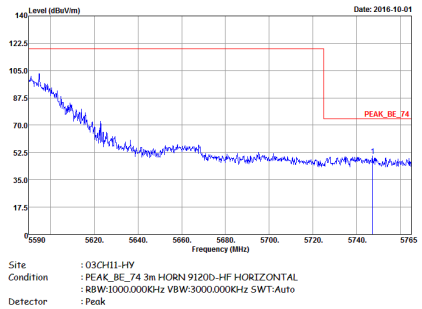
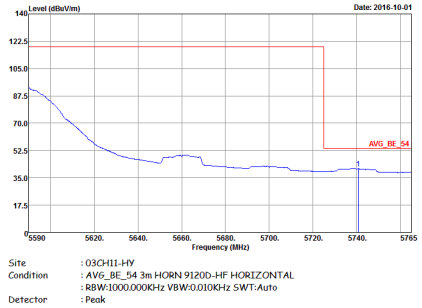
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak

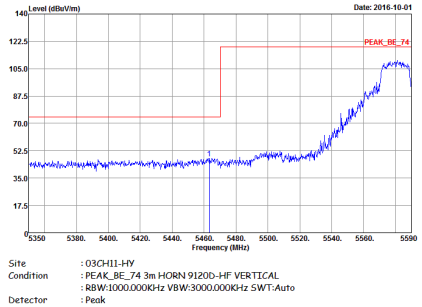
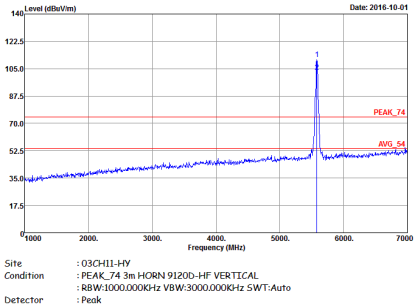
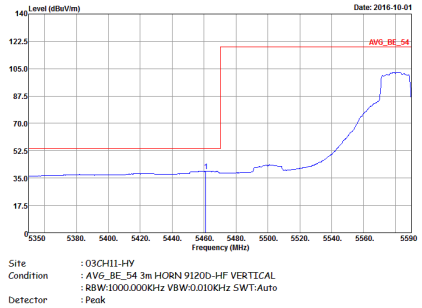
Band 3 5470~5725MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

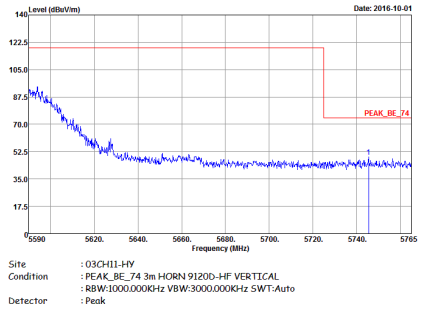
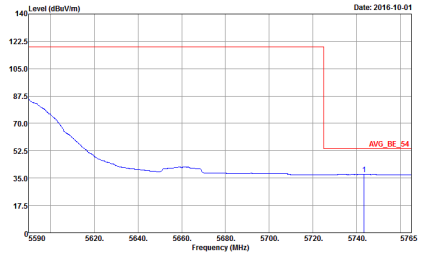
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

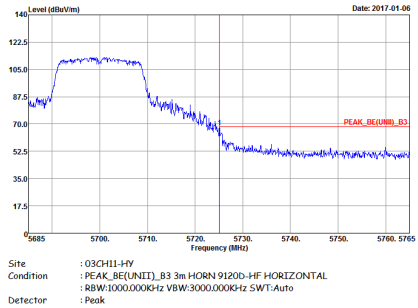
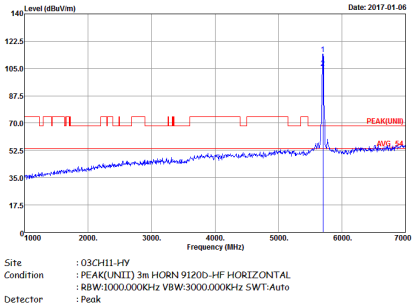
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

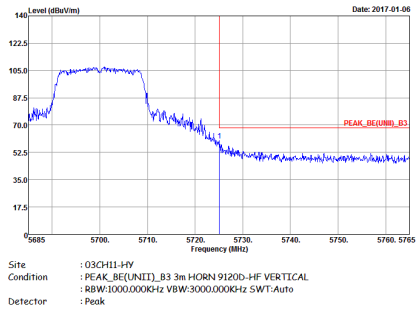
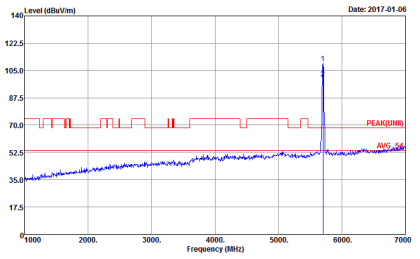
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

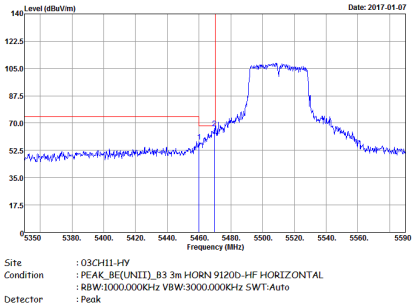
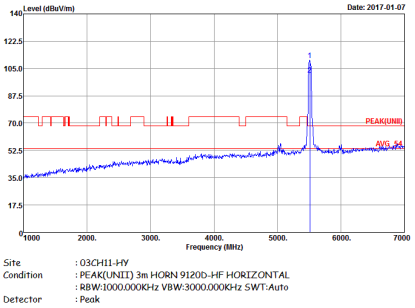
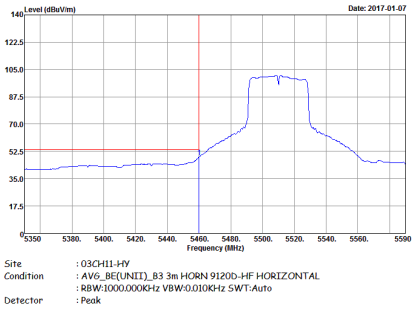
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

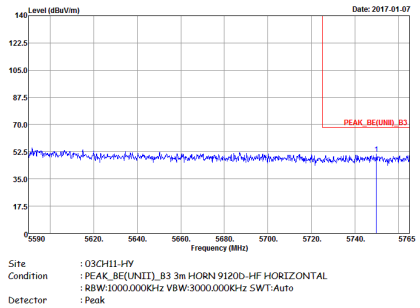
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak	Left blank

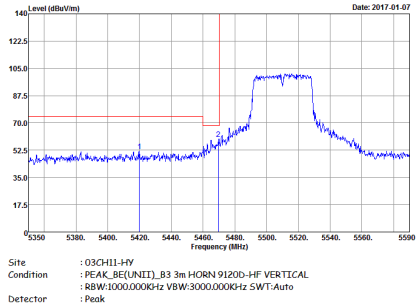
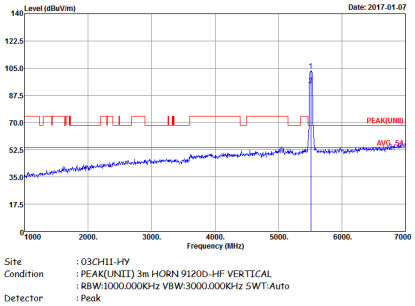
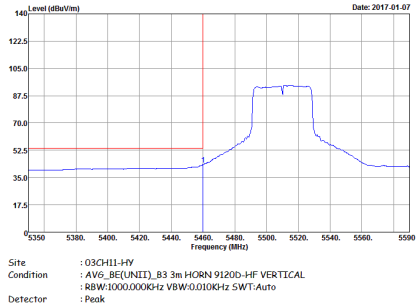
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak		

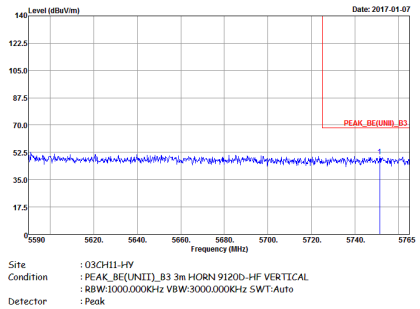
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak

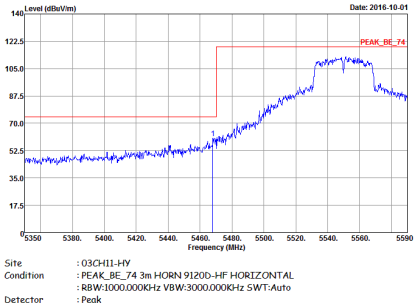
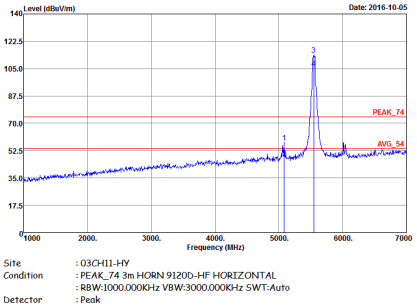
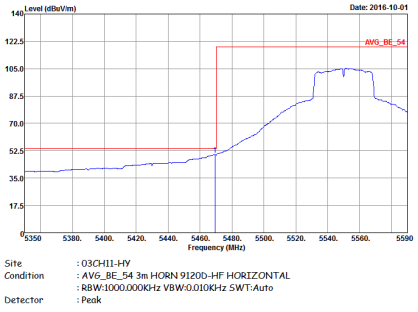
Band 3 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

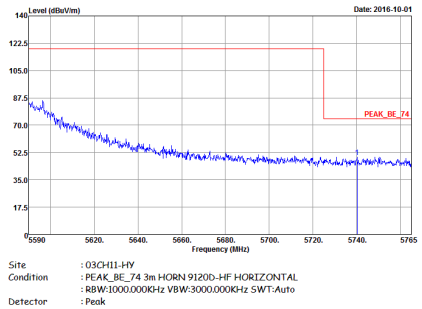
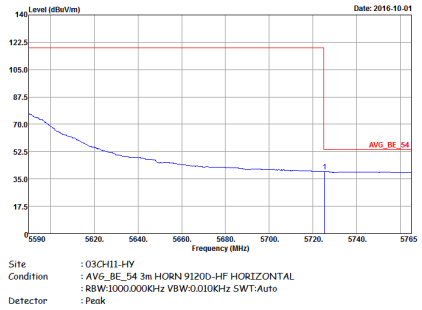
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

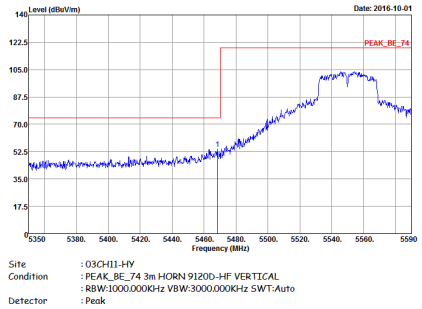
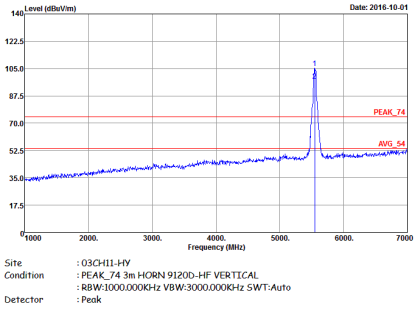
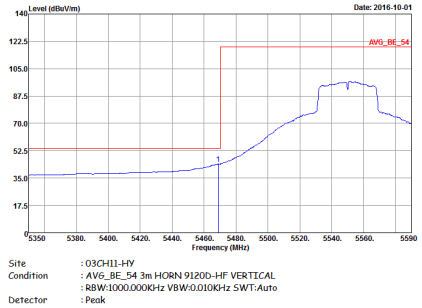
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

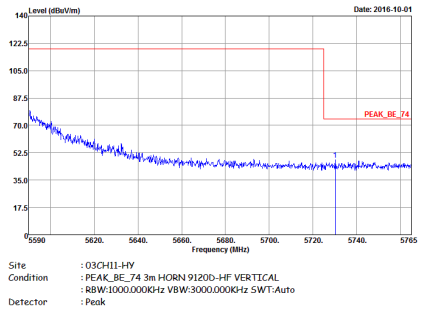
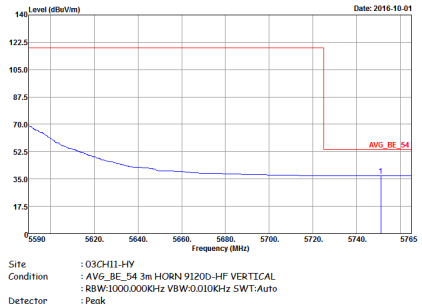
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

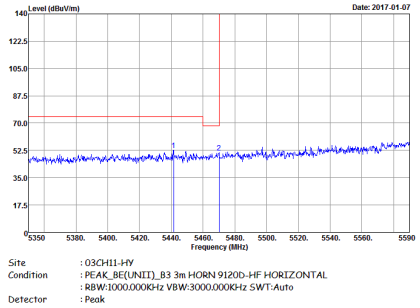
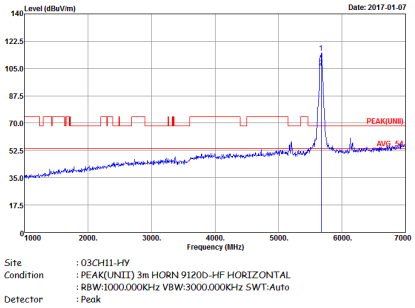
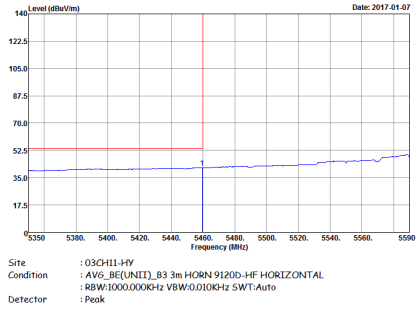
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

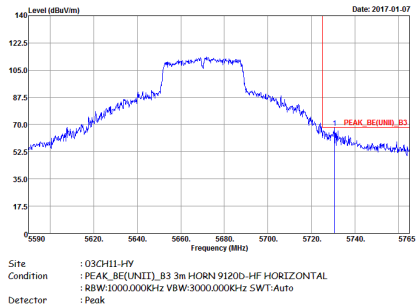
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

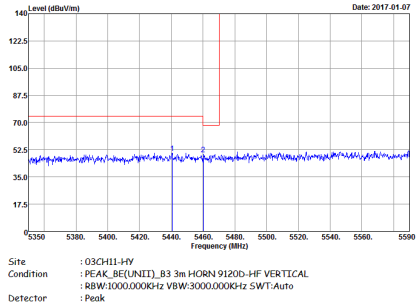
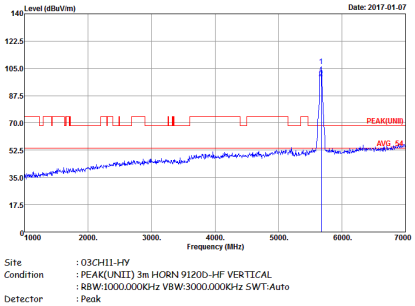
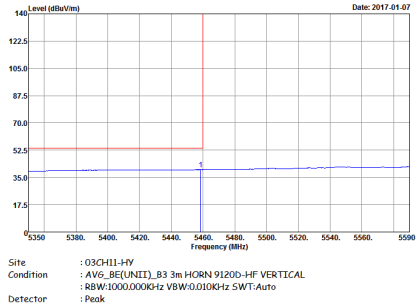
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

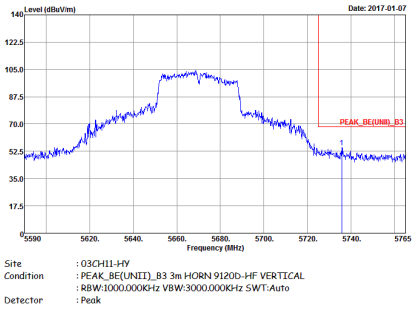
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

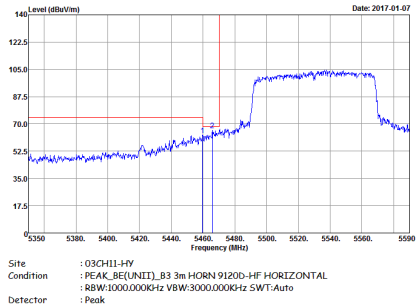
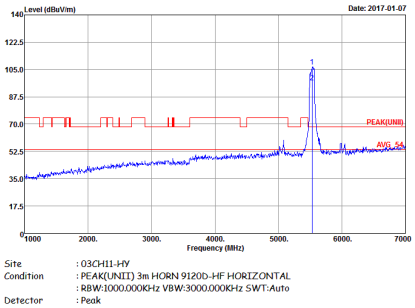
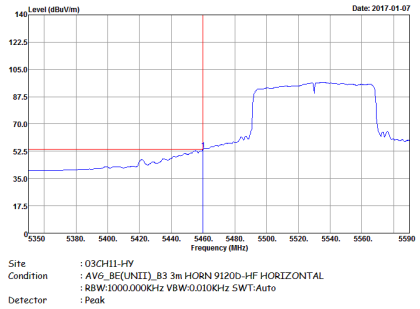
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

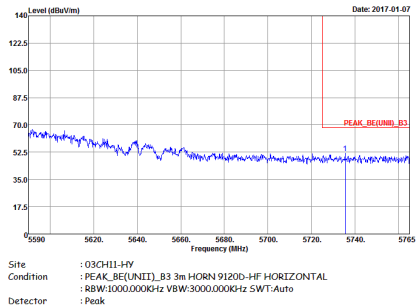
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

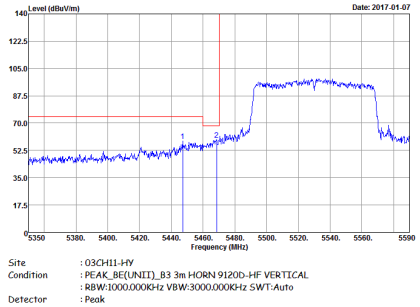
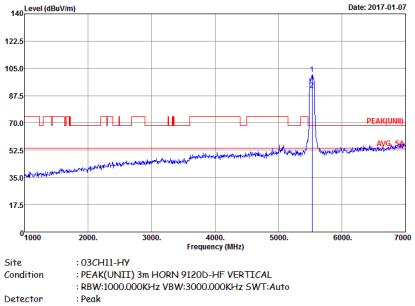
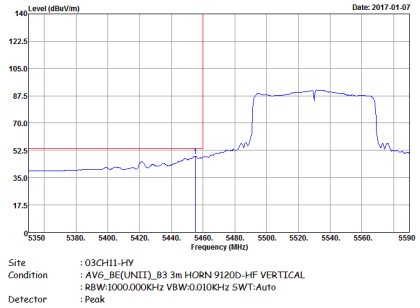
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

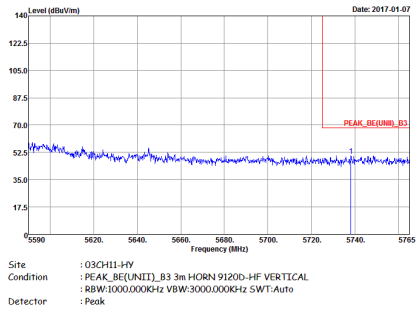
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

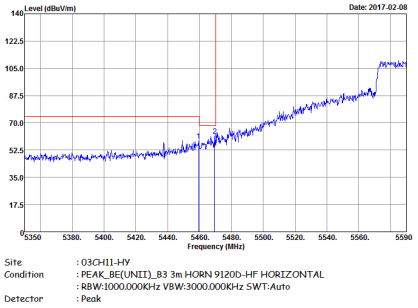
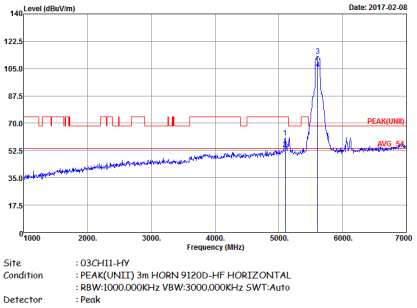
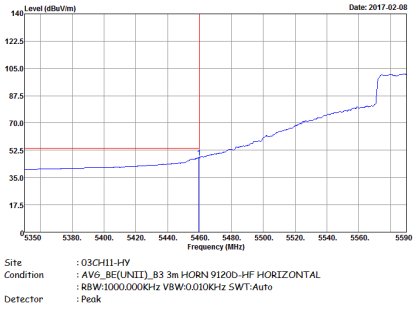
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

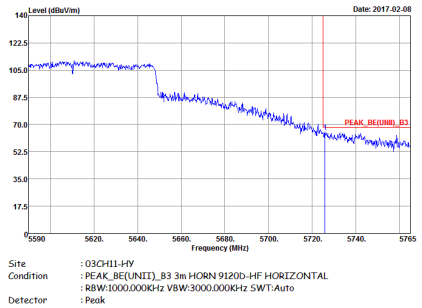
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

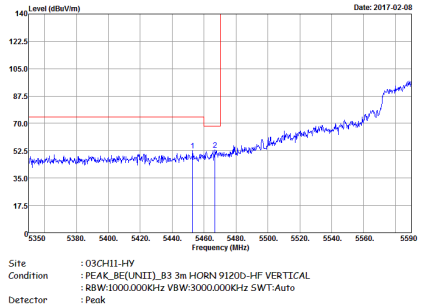
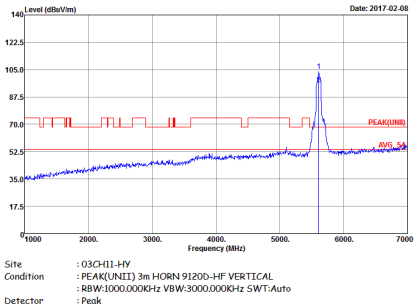
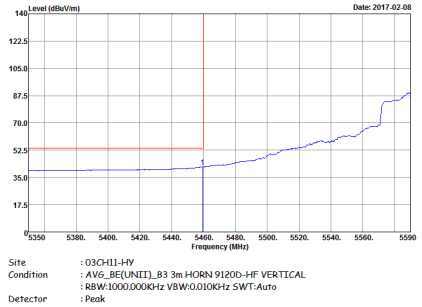
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

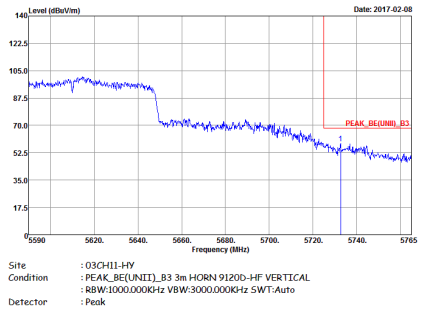
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Horizontal	Fundamental
Peak		
Avg.		Left blank

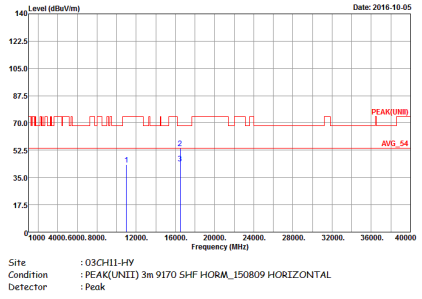
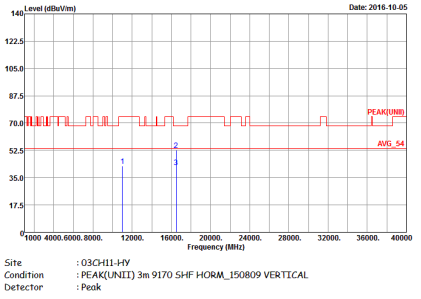
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank

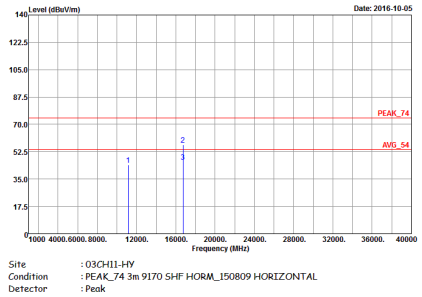
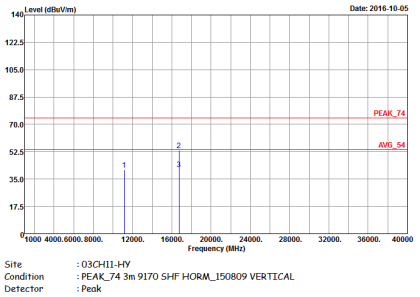
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - L	
1+2	Vertical	Fundamental
Peak		
Avg.		Left blank

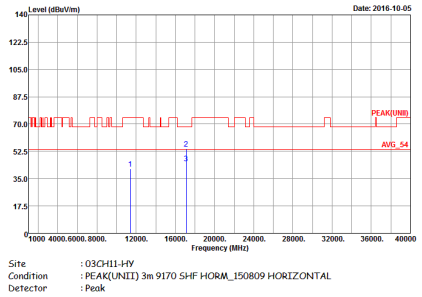
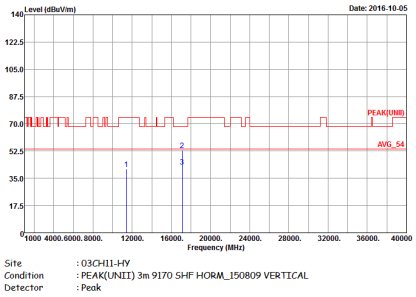
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

Band 3 - 5470~5725MHz

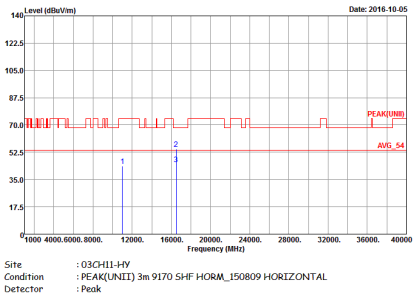
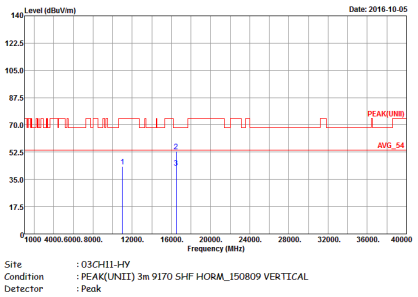
WIFI 802.11a (Harmonic @ 3m)

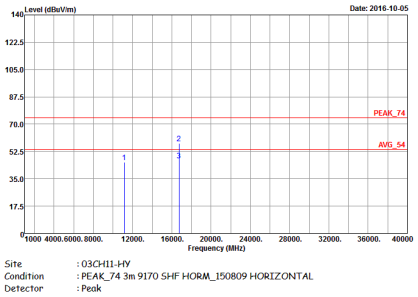
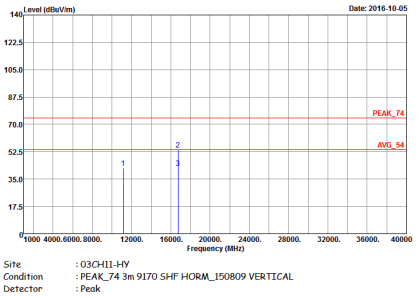
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

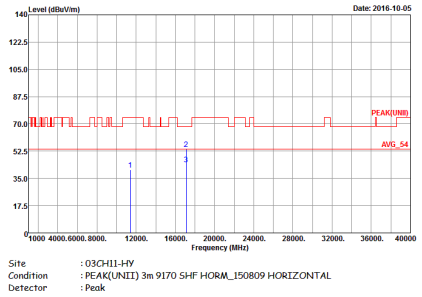
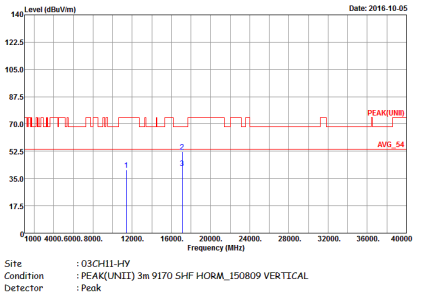
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 3 5470~5725MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

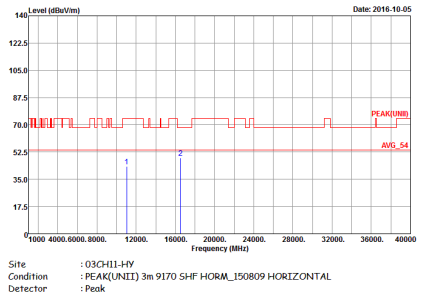
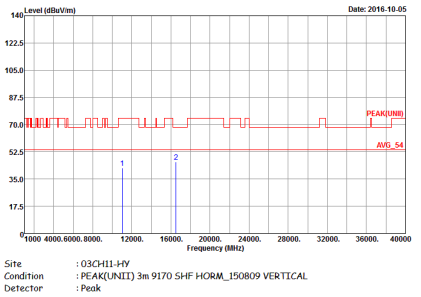
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH100 5500MHz	
1+2	Horizontal	Vertical
Peak Avg.		

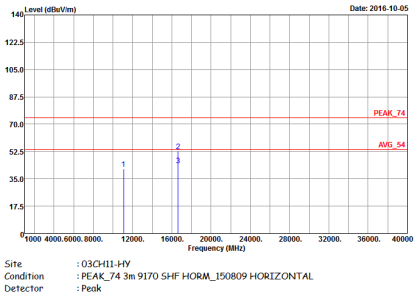
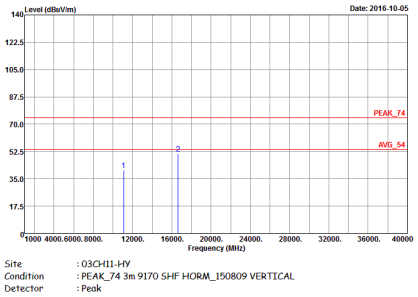
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH116 5580MHz	
1+2	Horizontal	Vertical
Peak Avg.		

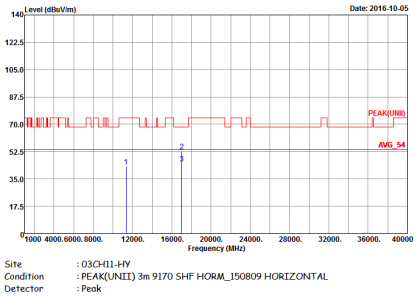
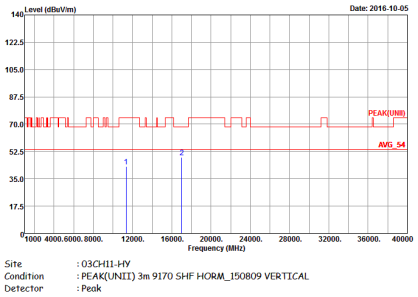
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT20 CH140 5700MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak

Band 3 5470~5725MHz

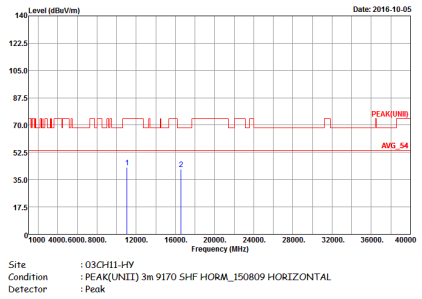
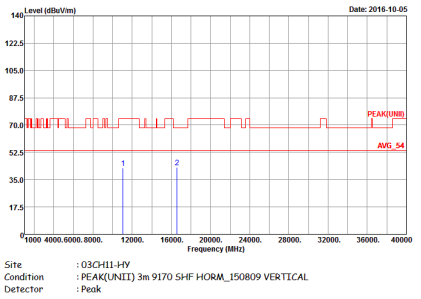
WIFI 802.11ac VHT40 (Harmonic @ 3m)

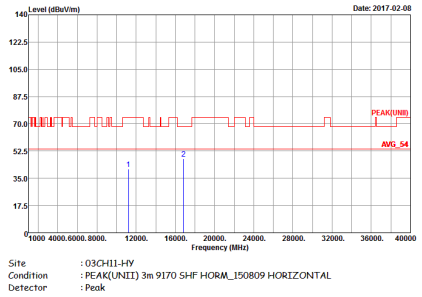
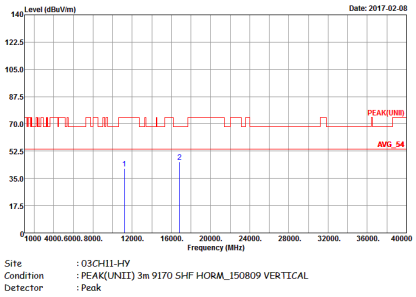
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH110 5550MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH134 5670MHz	
1+2	Horizontal	Vertical
Peak Avg.		

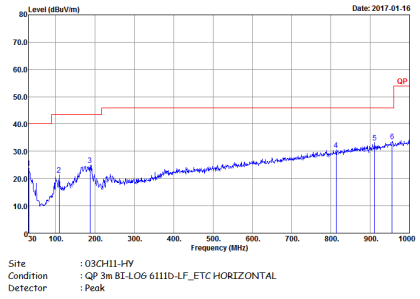
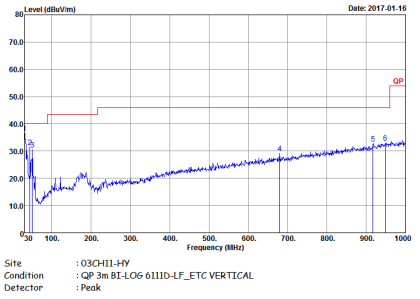
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH122 5610MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 HORIZONTAL Detector : Peak	 Site : 03CH11-HY Condition : PEAK(UNII) 3m 9170 SHF HORM_150809 VERTICAL Detector : Peak

Emission below 1GHz

5GHz WIFI 802.11ac VHT20 (LF)

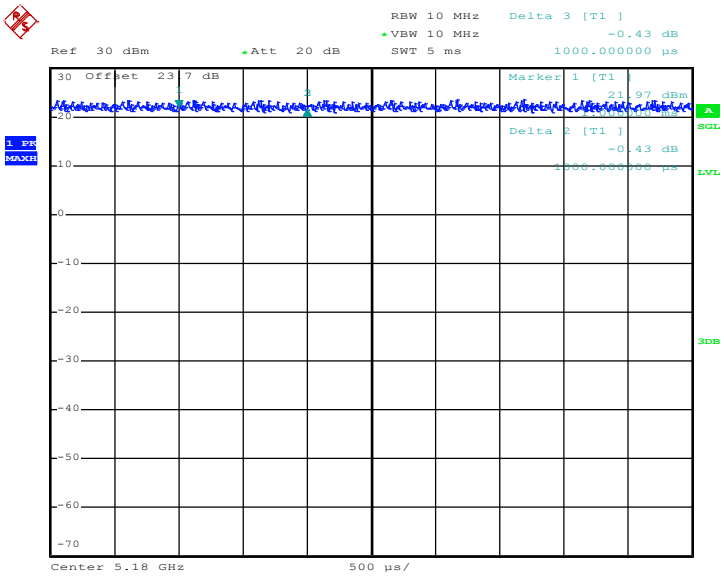
WIFI	5GHz WIFI	
ANT	802.11ac VHT20 LF	
1+2	Horizontal	Vertical
QP / Peak		

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	5GHz 802.11a for Ant 1	100	-	-	10Hz
1+2	5GHz 802.11a for Ant 2	100	-	-	10Hz
1+2	5GHz 802.11ac VHT20 for Ant 1	100	-	-	10Hz
1+2	5GHz 802.11ac VHT20 for Ant 2	100	-	-	10Hz
1+2	5GHz 802.11ac VHT40 for Ant 1	100	-	-	10Hz
1+2	5GHz 802.11ac VHT40 for Ant 2	100	-	-	10Hz
1+2	5GHz 802.11ac VHT80 for Ant 1	100	-	-	10Hz
1+2	5GHz 802.11ac VHT80 for Ant 2	100	-	-	10Hz

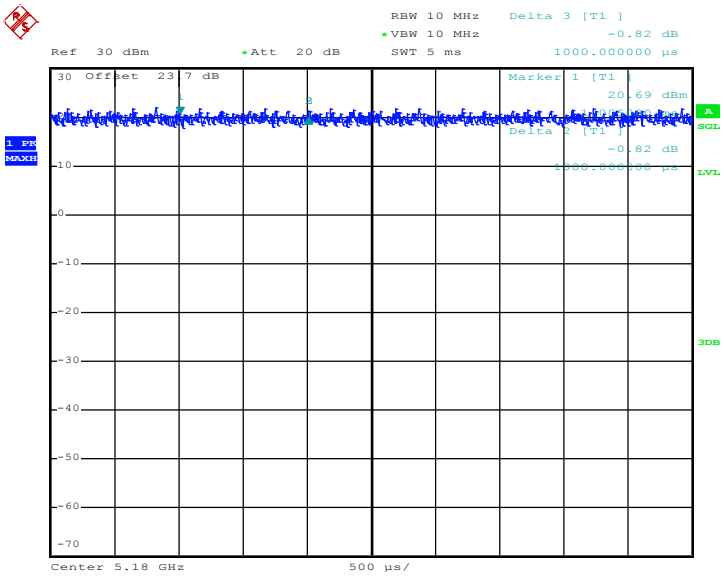
<MIMO Ant. 1+2 (1)>

802.11a



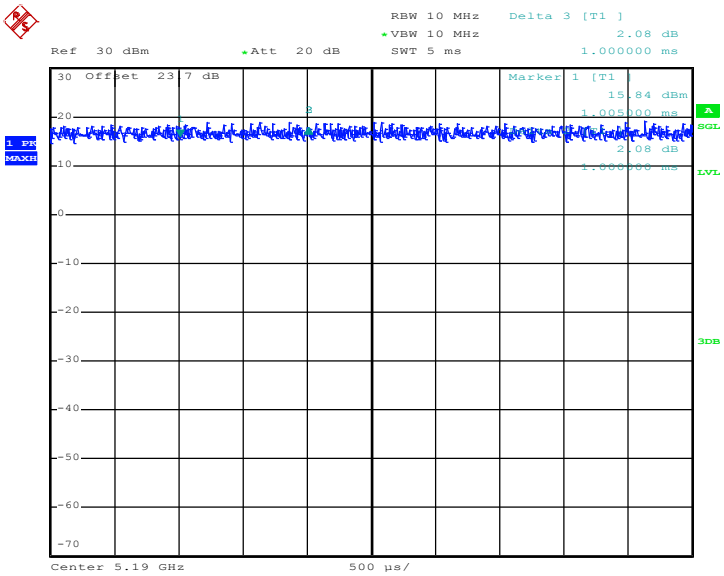
Date: 20.SEP.2016 10:53:51

802.11an VHT20



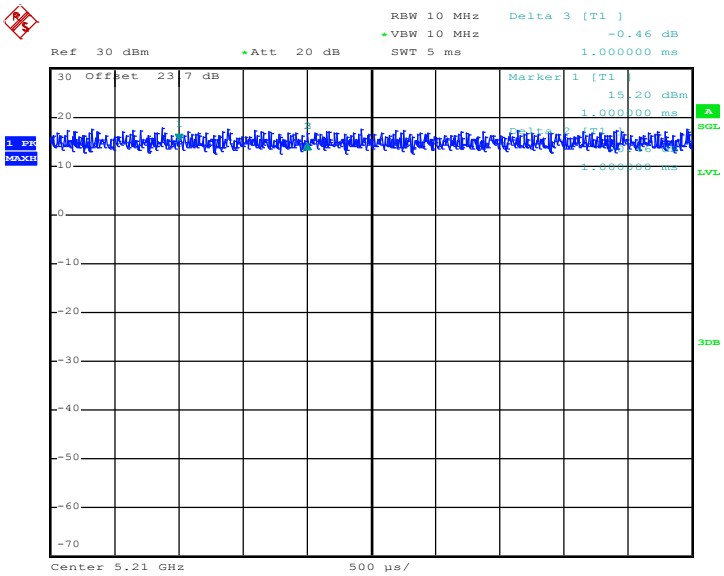
Date: 21.SEP.2016 09:27:30

802.11an VHT40



Date: 21.SEP.2016 10:32:59

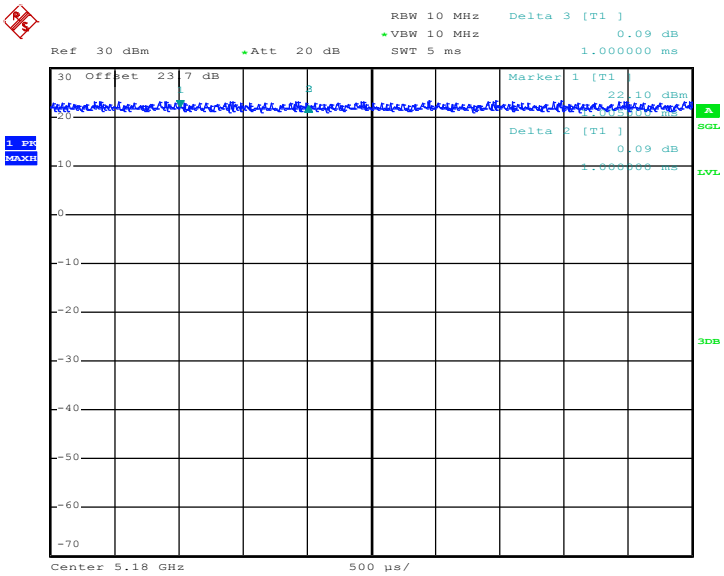
802.11ac VHT80



Date: 21.SEP.2016 11:31:00

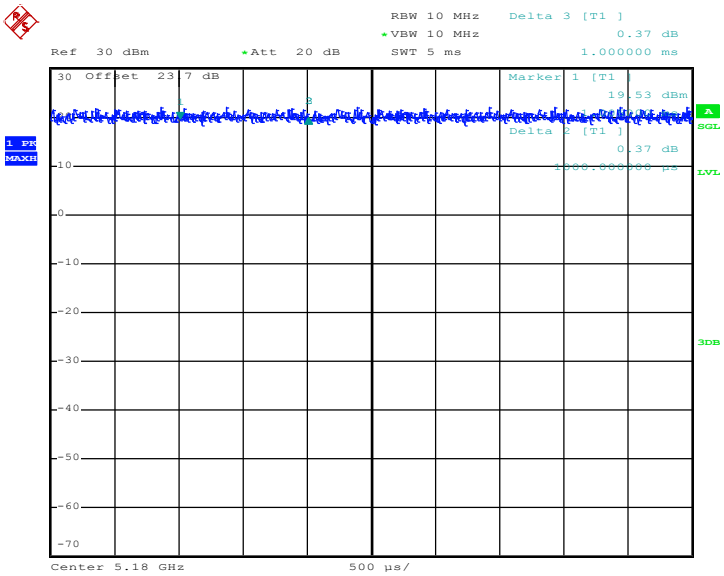
<MIMO Ant. 1+2 (2)>

802.11a



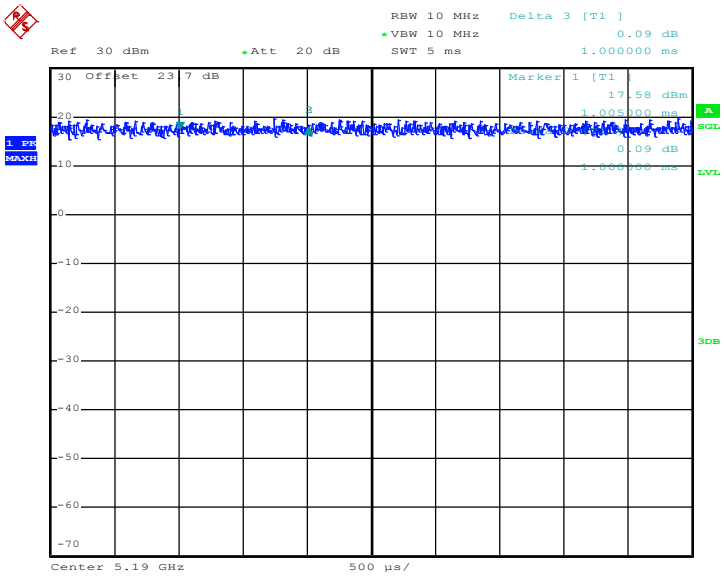
Date: 20.SEP.2016 10:58:09

802.11an VHT20



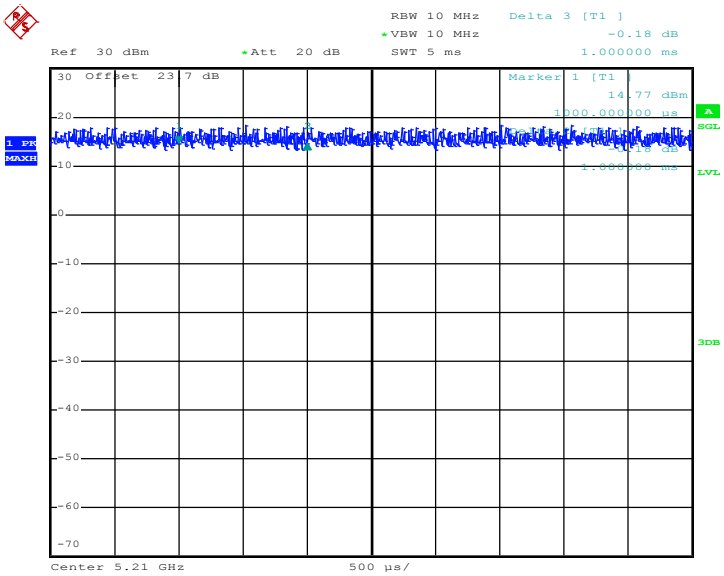
Date: 21.SEP.2016 09:32:04

802.11an VHT40



Date: 21.SEP.2016 10:33:38

802.11ac VHT80



Date: 21.SEP.2016 11:32:02

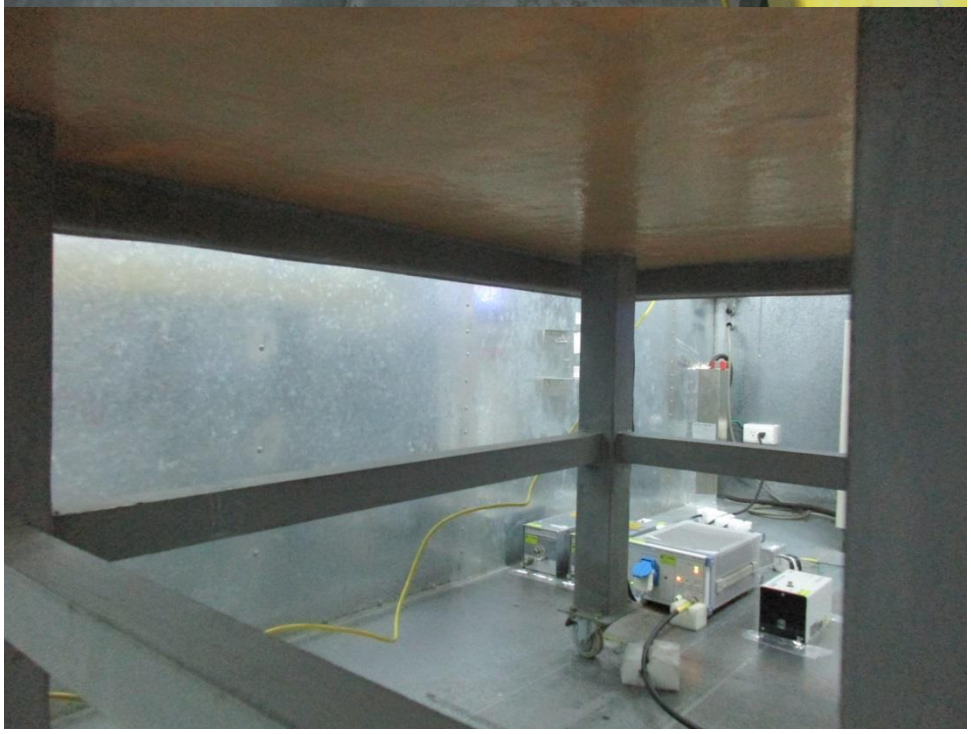
Appendix F. Setup Photographs

<Conducted Emission>

Mode 1

Remote View

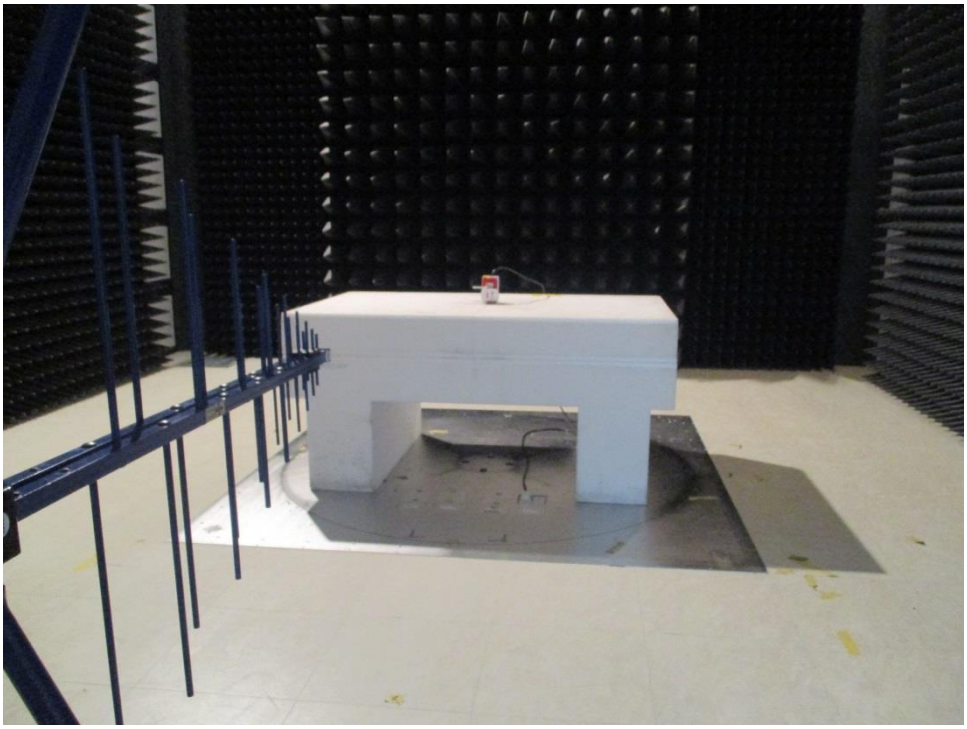
Rear View



<Radiated Emission>

Z Plane

LF



HF